

Access DB# 88987

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Alschua Morrison Examiner #: 7592 Date: 3/12/03  
Art Unit: 3032 Phone Number 30 5-0228 Serial Number: 10/019710  
Mail Box and Bldg/Room Location: PL5-8606 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Device for a Pallet Automat for bottles and boxes  
Inventors (please provide full names): Guntweit, Lars ; Andersen, Nicks

Earliest Priority Filing Date: 4/19/99

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

This is a cover plate for a reverse vending machine. A reverse vending machine gives money to people who deposit used (beverage) cans into an opening of the machine. The cover plate has an opening for receiving the cans. It also includes a drip basin/bowl beneath the opening for use by a user who needs to empty the can remnant. The vending machine has a drain channel & outlet which is aligned to the drain pipe socket of the drip basin/bowl.

## STAFF USE ONLY

Searcher: <u>Dugan DRCAs</u>	Type of Search	Vendors and cost where applicable
Searcher Phone #: <u>305-5774</u>	NA Sequence (#) _____	STN _____
Searcher Location: <u>ELC 3600</u>	AA Sequence (#) _____	Dialog <u>\$709.16</u>
Date Searcher Picked Up: <u>3-13-2003</u>	Structure (#) _____	Questel/Orbit _____
Date Completed: <u>3-13-2003</u>	Bibliographic <input checked="" type="checkbox"/>	Dr.Link _____
Searcher Prep & Review Time: <u>60</u>	Litigation _____	Lexis/Nexis _____
Clerical Prep Time: _____	Fulltext _____	Sequence Systems _____
Online Time: <u>77</u>	Patent Family _____	WWW/Internet <input checked="" type="checkbox"/>
	Other _____	Other (specify) _____

?show files;ds

File 348:EUROPEAN PATENTS 1978-2003/Mar W01

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File 349:PCT FULLTEXT 1979-2002/UB=20030306,UT=20030227

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Set	Items	Description
S1	277103	COVER OR COVERS OR COVERPLATE? ? OR (EXTERIOR OR OUTSIDE OR CONCEALMENT? OR FACE OR FRONT OR FACIA) (2W) PLATE? ?
S2	2422	FACEPLATE? ? OR FRONTPLATE? ?
S3	6809	(VENDING OR VENDOR? OR CANDY? OR SODA? OR BEVERAGE? OR SNA-CK?) (3N) (MACHINE? ? OR EQUIPMENT? OR UNIT? OR DEVICE? OR APPA-RATUS?)
S4	2803	(OUTPUT? OR OUT()PUT? OR RETURN? OR GIVE? OR GIVING OR EXP-ELL? OR EXCHANG?) (4N) (MONEY OR MONIES OR CASH OR DOLLAR OR CO-IN? ?)
S5	44822	(RECEIV? OR RECEPTION? OR INPUT? OR INSERT? OR PLACE? OR P-LACING OR PUTTING) (4N) (CANS OR ALUMINUM OR ALUMINIUM OR BOTTLE? ? OR CONTAINER? ?)
S6	41143	(DRIP? OR FLUID? OR CONTENT? ? OR DRAIN?) (5N) (BASIN? OR BO-WL? ? OR LIP? ? OR INSET? OR AREA OR OPENING OR PIPE? ?)
S7	48	(REVERSE) (3N) S3
S8	236572	DRAIN? OR PIPE? OR BASIN? ? OR BOWL? ? OR DRIP?
S9	337	(S1 OR S2) (S) S3
S10	2	S4 (3S) S5 (3S) S6
S11	0	S9 (3S) S10
S12	65	S9 AND S4
S13	8	S5 AND S12
S14	1	S7 (S) S8
S15	30	S8 (S) S9
S16	30	S14 OR S15
S17	40	S10 OR S13 OR S14 OR S16

?t17/3,k/all

17/3,K/1 (Item 1 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01452392

**Beverage dispensing apparatus**

**Getrankesponder**

**Distributeur de boisson**

PATENT ASSIGNEE:

Heineken Technical Services B.V., (746217), P.O. Box 510, 2380 BB

Zoeterwoude, (NL), (Applicant designated States: all)

INVENTOR:

Van der Meer, Sijtze, Heineken Technical Services B.V., P.O. Box 510, 2380 BB Zoeterwoude, (NL)

Timmermans, Sjoerd, Heineken Technical Services B.V., P.O. Box 510, 2380 BB Zoeterwoude, (NL)

LEGAL REPRESENTATIVE:

Jorritsma, Ruurd et al (69541), Nederlandsch Octrooibureau

Scheveningseweg 82 P.O. Box 29720, 2502 LS Den Haag, (NL)

PATENT (CC, No, Kind, Date): EP 1243548 A2 020925 (Basic)

EP 1243548 A3 021009

APPLICATION (CC, No, Date): EP 2001205036 980821;

PRIORITY (CC, No, Date): NL 106948 970904

DESIGNATED STATES: DE; ES; FR; GB; IT

RELATED PARENT NUMBER(S) - PN (AN):

EP 935585 (EP 98937716)

INTERNATIONAL PATENT CLASS: B67D-001/04

ABSTRACT WORD COUNT: 148

NOTE:

Figure number on first page: 3

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200239	280
SPEC A	(English)	200239	4238
Total word count - document A			4518
Total word count - document B			0
Total word count - documents A + B			4518

...SPECIFICATION operated as follows. It is assumed that no container is present in the apparatus. The **cover** 4 is opened and a container filled with beverage is placed into the chamber 3...

...is placed onto the lower part 41 over the hose clamp 52, and the outlet **pipe** 46 is inserted into the channel 47 of the tapping device. The upper part 42...

...by means of the locking mechanism 61. The hose 34 is now pinched off. The **cover** can be closed and the pump switch 69 is automatically switched on. Moreover, the cooling...

...opened. When all the beverage has been drawn from the container and is empty the **cover** is opened. The pump switch immediately turns off the pump and the pressure-relief valve...

17/3,K/2 (Item 2 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01433507

**Beverage dispensing apparatus**

**Getrankespender**

**Distributeur de boisson**

PATENT ASSIGNEE:

Heineken Technical Services B.V., (746217), P.O. Box 510, 2380 BB Zoeterwoude, (NL), (Applicant designated States: all)

INVENTOR:

Van der Meer, Sijtze, Heineken Technical Services B.V., P.O. Box 510, 2380 BB Zoeterwoude, (NL)

Timmermans, Sjoerd, Heineken Technical Services B.V., P.O. Box 510, 2380 BB Zoeterwoude, (NL)

LEGAL REPRESENTATIVE:

Jorritsma, Ruurd et al (69541), Nederlandsch Octrooibureau Scheveningseweg 82 P.O. Box 29720, 2502 LS Den Haag, (NL)

PATENT (CC, No, Kind, Date): EP 1213258 A2 020612 (Basic)  
EP 1213258 A3 020626

APPLICATION (CC, No, Date): EP 2001205037 980821;

PRIORITY (CC, No, Date): NL 106948 970904

DESIGNATED STATES: DE; ES; FR; GB; IT

RELATED PARENT NUMBER(S) - PN (AN):

EP 935585 (EP 98937716)

INTERNATIONAL PATENT CLASS: B67D-001/04

ABSTRACT WORD COUNT: 105

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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Search Report from Ginger D. Roberts

CLAIMS A	(English)	200224	553
SPEC A	(English)	200224	4238
Total word count	- document A		4791
Total word count	- document B		0
Total word count	- documents A + B		4791

...SPECIFICATION operated as follows. It is assumed that no container is present in the apparatus. The **cover** 4 is opened and a container filled with beverage is placed into the chamber 3...

...is placed onto the lower part 41 over the hose clamp 52, and the outlet **pipe** 46 is inserted into the channel 47 of the tapping device. The upper part 42...

...by means of the locking mechanism 61. The hose 34 is now pinched off. The **cover** can be closed and the pump switch 69 is automatically switched on. Moreover, the cooling...

...opened. When all the beverage has been drawn from the container and is empty the **cover** is opened. The pump switch immediately turns off the pump and the pressure-relief valve...

17/3,K/3 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00833193

Method of injection molding articles with selective concentrations or gradients of materials and novel articles containing the same  
 Reaktionsspritzgussverfahren zur Herstellung von Gegenstanden mit Konzentrationsgradienten Komponenten, sowie danach hergestellte Gegenstande

Procede pour la fabrication d'articles a gradients de concentrations de composants par moulage reaction-injection et articles ainsi prepares

PATENT ASSIGNEE:

Metton America, Inc., (2053450), 1051 Clark Street, Abingdon, Virginia 24210, (US), (applicant designated states: BE;DE;ES;FR;GB;IT;NL;SE)

INVENTOR:

Fitzgibbon, Denise Rae, 11 Signal Hill Drive, Hockessin, Delaware 19707, (US)

LEGAL REPRESENTATIVE:

VOSSIUS & PARTNER (100314), Siebertstrasse 4, 81675 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 771642 A1 970507 (Basic)

APPLICATION (CC, No, Date): EP 95117442 951106;

PRIORITY (CC, No, Date): EP 95117442 951106

DESIGNATED STATES: BE; DE; ES; FR; GB; IT; NL; SE

INTERNATIONAL PATENT CLASS: B29C-067/24;

ABSTRACT WORD COUNT: 203

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
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CLAIMS A	(English)	EPAB97	1197
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SPEC A	(English)	EPAB97	9432
--------	-----------	--------	------

Total word count	- document A		10629
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Total word count	- document B		0
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Total word count	- documents A + B		10629
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...SPECIFICATION as washing machines and refrigerators; fixtures such as sinks, showers, tubs, toilets, and hot tubs; **vending machines** and other dispensing apparatus; home and industrial agricultural equipment such as mowers, tractors, silos, and...

...and coaches; aerospace components; storage and shipping vessels, containers, trays, pallets, and bins; chlorine cell **covers** ; packing for distillation towers; **pipe** and tubing; gaskets; solar collectors; indoor and outdoor furniture; toys, bicycles, and sports equipment such...

17/3,K/4 (Item 4 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00712394

MODULAR DISPENSING TOWER

MODULARE, TURMARTIGE ABGABEVORRICHTUNG

DISTRIBUTEUR VERTICAL MODULAIRE

PATENT ASSIGNEE:

LANCER CORPORATION, (1211880), 235 West Turbo Street, San Antonio, TX 78216, (US), (Proprietor designated states: all)

INVENTOR:

DEERING, Robert, S., 11716 Warfield, San Antonio, TX 78216, (US)

DURHAM, Samuel, 9842 Huntress, San Antonio, TX 78255, (US)

SCHROEDER, Alfred, A., 2811 Whisper Fawn, San Antonio, TX 78230, (US)

LEGAL REPRESENTATIVE:

Moreland, David, Dr. (79803), Cruikshank & Fairweather, 19 Royal Exchange Square, Glasgow G1 3AE, (GB)

PATENT (CC, No, Kind, Date): EP 738234 A1 961023 (Basic)  
EP 738234 A1 990526  
EP 738234 B1 011121  
WO 9518764 950713

APPLICATION (CC, No, Date): EP 95908437 950106; WO 95US137 950106

PRIORITY (CC, No, Date): US 178070 940106

DESIGNATED STATES: DE; ES; FR; GB; IT

RELATED DIVISIONAL NUMBER(S) - PN (AN):

EP 1002761 (EP 99121490)

INTERNATIONAL PATENT CLASS: B67D-005/56

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200147	636
CLAIMS B	(German)	200147	632
CLAIMS B	(French)	200147	762
SPEC B	(English)	200147	6384
Total word count - document A			0
Total word count - document B			8414
Total word count - documents A + B			8414

...SPECIFICATION degree)C (38(degree)F).

Referring to Figs. 8-10, the first embodiment of the **beverage** dispensing **apparatus** of the present invention will be described. As shown in Fig. 8, modular dispensing tower...

...of the apparatus falling outwith the present invention and includes an identical housing 111, rear **cover** 112, top **cover** 113, **face plate** 116, **drip** tray 117, and dispensing valves. Manifold 114 is identical to manifold 14, except it includes...

17/3,K/5 (Item 5 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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...database may be created which includes a listing of all of the components of the **area** . See operation 31a of Figure 1B Also, listings of all services provided by vendors that...be installed. It should be noted that this procedure can be followed for any particular **area** of the network framework or the entire network as a whole.

Then, referring back to...its components are selected and placed in a second group of components in the second **area** of the database. These components are also indicia coded on the pictorial representation, in operation...and payment (LBPP) solution, particularly for the banking and telecommunications industries.

TradingProduct I - A commerce **exchange**  
application that enables trading partners of varying size and technical sophistication to transact business over...

17/3,K/30 (Item 21 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00753829 \*\*Image available\*\*

**A DEVICE FOR A PAWN AUTOMAT FOR BOTTLES AND BOXES**  
**DISPOSITIF POUR AUTOMATE DE DECONSIGNE DE BOUTEILLES ET DE BOITES**

Patent Applicant/Assignee:

REPANT AS, Baarsrudveien 2, N-3478 Naersnes, NO, NO (Residence), NO  
(Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

GUNTVEIT Lars, Nilsemarka 11B, N-1390 Vollen, NO, NO (Residence), NO  
(Nationality), (Designated only for: US)

ANDERSEN Niels Erik, Sjevollbukta 57, N-1390 Vollen, NO, NO (Residence),  
NO (Nationality), (Designated only for: US)

Legal Representative:

HAMSO PATENTBYRA ANS, Eivind Hamso, Odd Skjæveland, Gunnar Hamso, Arnold  
Ostvold, Borge Hamso, Jostein Soppeland, Box 171, N-4302 Sandnes, NO

Patent and Priority Information (Country, Number, Date):

Patent: WO 200067211 A1 20001109 (WO 0067211)

Application: WO 2000NO116 20000411 (PCT/WO NO0000116)

Priority Application: NO 991853 19990419

Designated States: AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY  
CA CH CN CR CU CZ CZ (utility model) DE DE (utility model) DK DK (utility  
model) DM DZ EE EE (utility model) ES FI FI (utility model) GB GD GE GH  
GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK  
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SK (utility model) SL TJ TM TR  
TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: Norwegian

Fulltext Word Count: 2021

Fulltext Availability:

Detailed Description

Claims

English Abstract

In a **reverse vending machine** the feed opening (22) in the front  
**cover** (14), for bottles and cans, is without a fixed connection to  
pipework etc. At the same time, an opening (26) for emptying remnants is  
formed in the front **cover** (14), in the form of a **bowl** , which merges

at the back side of the front **cover** into a **drain pipe** socket (28) positioned above an upwards open **drain** channel (30) in the interior of the machine, without a fixed connection between the **drain pipe** socket (28) and the channel (30). The front **cover** is possibly lockable and can be opened to the side by means of hinges (24), whereby the interior of the **reverse vending machine** is uncovered for inspection, maintenance or repair.

Detailed Description

... and cheap means,

According to the invention said objectives have been realized in that the **reverse vending machine** is formed and arranged in accordance with the specifications appearing from the characterizing part of Claim 1,

According to the present invention, near the bottle/can feed opening the front **cover** of the **reverse vending machine** is formed with a particular **drain** opening for remnants, which does not communicate with the fixtures within in the form of joined pipes and **pipe** bends, the **drain** opening possibly being provided with a **bowl** with a freely ending **drain pipe** socket at the back, which **pipe** socket may have its end opening above a fixed **drain** channel, located within and having an outlet of its own, but being without connection to the front **cover** , The **drain** channel may conveniently be placed under the bottle feed opening as well as the **drain** opening for remnants, so that also any remnants of drinks from the bottles and cans put through the feed opening, could land in the **drain** channel and from there into the outlet, Thus, the **drain** channel with outlet works like a **draining** device for the entire **reverse vending machine** construction,

Thus, according to the invention, a more reasonable and convenient positioning of the place for pouring out remnants is achieved, while at the same time the front **cover** of the machine can be hinged for full uncovering of the internal mechanisms of the **reverse vending machine** , for example for repair or maintenance purposes, Such a constructional solution, in which the front **cover** has no connection at all to fixtures in the form of **pipe** systems etc. is advantageous for repairs on the machine construction. The hinges of the front **cover** may be dual hinges and the front **cover** may be provided with a lock device.

A non-limiting example of a preferred embodiment...

...then the same bottles had to be subjected to the main operation (insertion into the **reverse vending machine** ). Now, each bottle with a remnant can first be ...The feed opening 22 has no communication with the internal apparatus 16, 18 of the **reverse vending machine** . The same applies to the **drain pipe** socket 28, whose free end opening is open above a fixed, upward open transversal **drain** channel 30,

The **drain** channel 30 preferably extends horizontally underneath the internal apparatus 16,18 of the **reverse vending machine** , so that any type of liquid from bottles and cans, that might be running down in the area behind the front **cover** , could land in this **drain** channel 30, which is connected to a separate outlet 32, It is of advantage that the front **cover** 14 has no fixed connection to fixtures, pipes, cables etc., so that it can be opened and possibly lifted off its hinges 24 to uncover the internal mechanisms and apparatus of the **reverse vending machine** after a possible

lock device has been unlocked.

Claim

... cover (14). and a corresponding opening (20) positioned within in the internal bottle-/can-handling **device** of the **reverse vending machine** .

2 A **device** according to claim 1, c h a r a c t e r i z e d in that the **drain** opening (26) of the front **cover** (14), for remnants, is formed in an upwards open **bowl** , whose opening at the rear side of the front **cover** (14) ends in a **drain pipe** socket (28).

3 A device according to claim 2, c h a r a c...

17/3,K/31 (Item 22 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00538230 \*\*Image available\*\*

**SNACK DISPENSER**

**DISTRIBUTEUR DE COLLATION**

Patent Applicant/Assignee:

CASTLEBERRY Billy J,

Inventor(s):

CASTLEBERRY Billy J,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200001603 A1 20000113 (WO 0001603)

Application: WO 99US14989 19990702 (PCT/WO US9914989)

Priority Application: US 98111333 19980707

Designated States: AU CA JP KR MX AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE

Publication Language: English

Fulltext Word Count: 10481

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... 18 inside the coin box cavity 106. The coin box 18 allows the customer to **insert** coins into the bank **container** , which are processed, and then credit information is 2 0 communicated to the door lock...in the box to form a circle. A full coin box 18 from a replenished **snack vending machine** will be placed in the center of the box in the hole created in the...

...In that regard, a person

2 7

replenishing a snack vendor would open the box **cover** and fold it around to be substantially on the same plane as that portion of...

...was the base of the box now becomes the lid and is folded over to **cover** the depleted segment assemblies and full coin box.

The boxed collapsed segment assemblies can be...

Claim

... above, thus exchanging the depleted tiered segment assemblies with the replenished



tiered segment assemblies,  
i) **exchanging** a **coin** box in the vendor with the empty coin box,  
j) placing all removed components in...

...above, thus  
exchanging the depleted tiered tray assembly with the replenished  
tiered tray assembly,  
i) **exchanging** a **coin** box in the vendor with the empty coin box,  
j) placing all removed components in...

**17/3,K/32 (Item 23 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00534786 \*\*Image available\*\*

**SELF-CLEANING HAND WASHER**

**LAVE-MAINS AUTONETTOYANT**

Patent Applicant/Assignee:

SUNNYBROOK AND WOMEN'S COLLEGE HEALTH SCIENCES CENTRE,  
FERNIE Geoffrey Roy,

Inventor(s):

FERNIE Geoffrey Roy,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9966138 A1 19991223

Application: WO 98CA591 19980617 (PCT/WO CA9800591)

Priority Application: WO 98CA591 19980617

Designated States: AT AU BR CA CH CN DE DK ES FI GB ID IL JP KP KR KZ MX NO  
NZ PL PT RU SE SG US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT  
SE

Publication Language: English

Fulltext Word Count: 5776

Fulltext Availability:

Detailed Description

Detailed Description

... by a user inserting coins  
into a coin fed actuator as are know in the **vending machine** industry  
(not shown). More preferably, the entire cycle of the machine,  
including the reconfiguration of **bowl** 30 and its **cover** ,, is actuated  
without the user's hands touching any of the controls. For example,  
the entire operation of **bowl** 30 and the water and soap dispenser may  
be initiated by means of an actuator...

**17/3,K/33 (Item 24 from file: 349)**

DIALOG(R)File 349:PCT FULLTEXT

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00528740

**A BEVERAGE**

**BOISSON**

Patent Applicant/Assignee:

BASS PUBLIC LIMITED COMPANY,  
SCULLION Simon Daniel,  
FOSTER Peter Thomas,  
SMITH Stephen Paul,

Inventor(s):

SCULLION Simon Daniel,  
FOSTER Peter Thomas,  
SMITH Stephen Paul,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9960092 A1 19991125  
Application: WO 99GB1551 19990514 (PCT/WO GB9901551)  
Priority Application: GB 9810309 19980515; GB 9828321 19981223; GB 9828317 19981223; GB 991018 19990119  
Designated States: AU CA GB JP NO SG US ZA AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
Publication Language: English  
Fulltext Word Count: 13463  
Fulltext Availability:  
Detailed Description

Detailed Description

... valve 10 is open, is provided to pump beverage from the cask 4 along a **pipe** 12 ultimately to the valve 10 and a dispense outlet 14 therefrom. In known manner...

...from a suitable supply 16 and assists the pump 8 in the extraction of the **beverage** .

A **beverage** dispense **unit** is indicated generally at 18 and has a cover indicated by interrupted lines 20. The...

17/3,K/34 (Item 25 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00488497 \*\*Image available\*\*

**APPARATUS AND METHOD FOR VENDING PRODUCTS**  
**APPAREIL ET PROCEDE DE DISTRIBUTION D'ARTICLES**

Patent Applicant/Assignee:

GROSS-GIVEN MANUFACTURING COMPANY,

Inventor(s):

SORENSEN Steven W,

SKAVNAK James E,

GOTICH Thomas F,

HUDIS Scott,

LOTSPEICH Joseph A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9919849 A1 19990422

Application: WO 98US21144 19981007 (PCT/WO US9821144)

Priority Application: US 97949366 19971014

Designated States: AU CN JP KR AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 21711

Fulltext Availability:

Detailed Description

Detailed Description

... machine as hereinafter described. The door panel 24 illustrated in Fig. 1 also includes a **coin return** slot, generally indicated at 29 and a locking handle assembly 30 that enables the door...224 between which an optical signal passes. When the signal is broken by a beverage **container received** by the beverage capture assembly, a "product present" signal is sent to the system Controller...opening assembly 120 as it would be viewed from the front right side of the **vending machine** , and Fig. 15 illustrates the door opening assembly as it would appear from its right back position. The door opening assembly 120 generally has a **front mounting plate** 121 defining an access port 121 a therethrough which cooperatively aligns with the product delivery port 3 2 formed in

the front panel of the **vending machine** door 24. The door opening ... a vend cycle. Such locking prevents unauthorized or vandalous entry into the interior of the **vending machine** through the product delivery port when the delivery door is open.

The security locking apparatus...capture assembly, its lower surface will enter the circular detent portion 108a of the floor **insert** member, further retaining the **container** in fixed **placed** within the beverage capture assembly. The upper portion of the captured container will engage the...

...the product present sensor 222 to see if the beverage capture assembly 102 has actually **received** the selected beverage **container** (decision block 313). If the beverage capture assembly 102 is empty, the Controller repeats this...

...refunded, ending the Vend cycle.

If the product present sensor 222 indicates that a beverage **container** has in fact been **received** by the beverage capture assembly 102, the Controller will activate the Z-drive motor in...

17/3,K/35 (Item 26 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00300613 \*\*Image available\*\*

**MODULAR DISPENSING TOWER**  
**DISTRIBUTEUR VERTICAL MODULAIRE**

Patent Applicant/Assignee:

LANCER CORPORATION,

Inventor(s):

DEERING Robert S,

DURHAM Samuel,

SCHROEDER Alfred A,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9518764 A1 19950713

Application: WO 95US137 19950106 (PCT/WO US9500137)

Priority Application: US 94178070 19940106

Designated States: AU BR CA CN JP KP AT BE CH DE DK ES FR GB GR IE IT LU MC  
NL PT SE

Publication Language: English

Fulltext Word Count: 8515

Fulltext Availability:

Detailed Description

Detailed Description

... below a temperature of

38oF,

Referring to Figs. 8-10, the second embodiment of the **beverage** dispensing **apparatus** of the present invention will be described, As shown in Fig. 8, modular dispensing tower...

...modular

dispensing tower 10 of the first embodiment and includes an identical housing 111, rear **cover** 112, top **cover** 113, **face plate** 116, **drip** tray 117, and dispensing valves. Manifold 114 is identical to manifold 14, except it includes...

17/3,K/36 (Item 27 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00262493

**VENDING MACHINE FOR INDIVIDUAL CIGARETTES**  
**DISTRIBUTEUR AUTOMATIQUE DE CIGARETTES VENDUES A L'UNITE**

Patent Applicant/Assignee:

LAIDLAW Ronald W,

Inventor(s):

LAIDLAW Ronald W,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9410662 A1 19940511

Application: WO 93US10354 19931028 (PCT/WO US9310354)

Priority Application: US 92967788 19921028

Designated States: AU BR CA FI HU JP KP KR LK NO NZ PL RO RU UA AT BE CH DE  
DK ES FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN  
TD TG

Publication Language: English

Fulltext Word Count: 7697

Fulltext Availability:

Detailed Description

Detailed Description

... building wall 12 (see FIG, 1),  
Side supports 34 extend between back plate 32 and **front plate 36** and securely attach to both back plate 32 and **front plate 36**. The preferred embodiment of **vending machine 10** includes four of side supports 34 so that an individual compartment is formed for each of vendors 28 and so that adequate bracing is provided for **front plate 36**. The outside ones of side supports 34 include holes 38, which cooperate with locks 15 to securely attach outer casing 14. Coin mechanisms 22 securely attach to **front plate 36**. Each coin mechanism 22 is accessible from outside outer casing 14 through an opening...as shown by an arrow in FIG. 9, into coin box 42. With continued rotation, **coin mechanism 22 returns** to its locked position, where slot 102 resides above lower left wall 88 of holding...cigarettes which are dimensioned to fit within the holding bins. Loading would be eased by **placing** such bulk **containers** into the holding bins. These and other changes and modifications which are obvious to those...

17/3,K/37 (Item 28 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00226772

**MICROWAVE VENDING MACHINE**  
**DISTRIBUTEUR AUTOMATIQUE COMPRENANT UN FOUR A MICRO-ONDES**

Patent Applicant/Assignee:

ENERSYST DEVELOPMENT CENTER INC,

Inventor(s):

SMITH Donald P,

DOBIE Michael J,

SPARMAN Alden B Sr,

NORRIS John R,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9301019 A1 19930121  
Application: WO 91US4801 19910708 (PCT/WO US9104801)  
Priority Application: WO 91US4801 19910708  
Designated States: BB BG BR FI HU KP KR LK MC MG MN MW NO PL RO SD SU BF BJ  
CF CG CI CM GA GN ML MR SN TD TG  
Publication Language: English  
Fulltext Word Count: 8409

Fulltext Availability:  
Detailed Description

Detailed Description

... refrigerated depending upon the nature of the food product to be dispensed by the **vending machine** 200,  
The relatively non-conducting sleeve 12 serves as a comfortable holder for the hot container 18 and food 30,  
The **cover** for the container 18, having a lip 19 which extends around the periphery of upper...  
  
...formed by the top 14 of sleeve 12 to provide a slip-over lid which **covers** the open top of the container 18 and can be removed for heating and subsequently...  
  
...If layer 29 is slices of potato and product 30 is a meat product, juices **dripping** from the lower surface of food product 30 will contact and be absorbed by layer...

17/3,K/38 (Item 29 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2003 WIPO/Univentio. All rts. reserv.

00212562

**MODULAR FOODSERVICE EQUIPMENT**  
**EQUIPEMENT DE RESTAURATION MODULAIRE**

Patent Applicant/Assignee:  
SOUTHERN EQUIPMENT COMPANY,  
Inventor(s):  
TUHRO Albert P,  
KREMER Frank,  
HANEWINKEL Michael G,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9209771 A1 19920611  
Application: WO 91US4963 19910715 (PCT/WO US9104963)  
Priority Application: US 9076 19901130  
Designated States: AT AT AU BE BG CA CH CH DE DE DK DK ES ES FI FR GB GB GR  
HU IT JP KP KR LU NL NL NO PL RO SE SE SU  
Publication Language: English  
Fulltext Word Count: 12662

Fulltext Availability:  
Detailed Description

Detailed Description

... manual fasteners 81b, 281b having enlarged, knurled heads which may be turned by hand,  
The **beverage counter unit** 26 has a grated opening 89 in the counter wall 341 with a fluid take-off **drain** trough (not shown) accommodated within the main frame for the passage of spilled or overflow...

17/3,K/39 (Item 30 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00211383 \*\*Image available\*\*

**IMPROVEMENTS IN OR RELATING TO THE TREATMENT OF WASTE**

**AMELIORATIONS CONCERNANT LE TRAITEMENT DES DECHETS**

Patent Applicant/Assignee:

PLASTICS DENSIFICATION LIMITED,

SCHEERES David Johannes,

Inventor(s):

SCHEERES David Johannes,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9208590 A1 19920529

Application: WO 91GB1977 19911111 (PCT/WO GB9101977)

Priority Application: WO 90GB1730 19901109; US 91537 19910521; GB 9111089 19910522

Designated States: AT AT AU BB BE BF BG BJ BR CA CF CG CH CH CI CM DE DE DK

DK ES ES FI FR GA GB GB GN GR HU IT JP KP KR LK LU LU MC MG ML MR MW NL

NL NO PL RO SD SE SE SN SU TD TG US

Publication Language: English

Fulltext Word Count: 21694

Fulltext Availability:

Detailed Description..

Detailed Description

... have been devised,

Another recycling process involves the plastics cups supplied by the makers of **beverage vending machines**. One supplier has devised a method of collection from the sites of use. This involves supplying collection receptacles with **drip** trays at the **vending machine** locations and arranging for periodical collections. One collection cycle involves two trucks, two drivers and...

17/3,K/40 (Item 31 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00151393

**A SPUN FIBROUS COSMETIC AND METHOD OF USE**

**PRODUIT COSMETIQUES FIBREUX FILE ET PROCEDE D'UTILISATION**

Patent Applicant/Assignee:

FUISZ Richard C,

Inventor(s):

FUISZ Richard C,

Patent and Priority Information (Country, Number, Date):

Patent: WO 8808296 A1 19881103

Application: WO 88US1193 19880414 (PCT/WO US8801193)

Priority Application: US 87371 19870420; US 88914 19880318

Designated States: AT AU BE BR CH DE FR GB HU IT JP KR LU NL SE SU

Publication Language: English

Fulltext Word Count: 3931

Fulltext Availability:

Detailed Description

Detailed Description

... a Gold

Search Report from Ginger D. Roberts

Medal Company cotton candy machine that had-been modified by fitting a plastic **cover** over the **bowl** . The **cover** caused the formation of a mushroom shaped dense fiber mass which flattened out when the...

...off. The fiber mass was dry due to the low relative humidity created inside the **bowl** as a result of the elevation in temperature resulting from heat trapped by the plastic **cover** .

Unfortunately, lactose with a melting point above 2000C requires a heat setting of the cotton...

?

Search Report from Ginger D. Roberts

?show files;ds

File 15:ABI/Inform(R) 1971-2003/Mar 13  
 (c) 2003 ProQuest Info&Learning  
 File 16:Gale Group PROMT(R) 1990-2003/Mar 12  
 (c) 2003 The Gale Group  
 File 148:Gale Group Trade & Industry DB 1976-2003/Mar 07  
 (c)2003 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
 (c) 1999 The Gale Group  
 File 275:Gale Group Computer DB(TM) 1983-2003/Mar 12  
 (c) 2003 The Gale Group  
 File 621:Gale Group New Prod.Annou.(R) 1985-2003/Mar 12  
 (c) 2003 The Gale Group  
 File 9:Business & Industry(R) Jul/1994-2003/Mar 12  
 (c) 2003 Resp. DB Svcs.  
 File 20:Dialog Global Reporter 1997-2003/Mar 13  
 (c) 2003 The Dialog Corp.  
 File 476:Financial Times Fulltext 1982-2003/Mar 13  
 (c) 2003 Financial Times Ltd  
 File 610:Business Wire 1999-2003/Mar 13  
 (c) 2003 Business Wire.  
 File 613:PR Newswire 1999-2003/Mar 13  
 (c) 2003 PR Newswire Association Inc  
 File 624:McGraw-Hill Publications 1985-2003/Mar 12  
 (c) 2003 McGraw-Hill Co. Inc  
 File 634:San Jose Mercury Jun 1985-2003/Mar 12  
 (c) 2003 San Jose Mercury News  
 File 636:Gale Group Newsletter DB(TM) 1987-2003/Mar 12  
 (c) 2003 The Gale Group  
 File 810:Business Wire 1986-1999/Feb 28  
 (c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30  
 (c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	2348813	COVER OR COVERS OR COVERPLATE? ? OR (EXTERIOR OR OUTSIDE OR CONCEALMENT? OR FACE OR FRONT OR FACIA) (2W) PLATE? ?
S2	5409	FACEPLATE? ? OR FRONTPLATE? ?
S3	166845	(VENDING OR VENDOR? OR CANDY? OR SODA? OR BEVERAGE? OR SNA-CK?) (3N) (MACHINE? ? OR EQUIPMENT? OR UNIT? OR DEVICE? OR APPA-RATUS?)
S4	415950	(OUTPUT? OR OUT()PUT? OR RETURN? OR GIVE? OR GIVING OR EXP-ELL? OR EXCHANG?) (4N) (MONEY OR MONIES OR CASH OR DOLLAR OR CO-IN? ?)
S5	28821	(RECEIV? OR RECEPTION? OR INPUT? OR INSERT? OR PLACE? OR P-LACING OR PUTTING) (4N) (CANS OR ALUMINUM OR ALUMINIUM OR BOTTL-E? ? OR CONTAINER? ?)
S6	35959	(DRIP? OR FLUID? OR CONTENT? ? OR DRAIN?) (5N) (BASIN? OR BO-WL? ? OR LIP? ? OR INSET? OR AREA OR OPENING OR PIPE? ?)
S7	759	(REVERSE) (3N)S3
S8	2057501	DRAIN? OR PIPE? OR BASIN? ? OR BOWL? ? OR DRIP?
S9	1408	(S1 OR S2) (S)S3
S10	1	S4(3S)S5(3S)S6
S11	0	S9(3S)S10
S12	29	S9 AND S4
S13	1	S5 AND S12
S14	2	S7(S)S8
S15	17	S8(S)S9
S16	19	S14 OR S15
S17	16	RD (unique items)

?t17/3,k/all

March 13, 2003 1 11:57



17/3,K/1 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01653985 03-04975

**Carrier Flash Point -- Users, ISPs Seek VoIP Toll Savings**

Salamone, Salvatore

InternetWeek n718 PP: 1, 93 Jun 8, 1998

ISSN: 1096-9969 JRNL CODE: CWE

...ABSTRACT: avoid the long-distance phone charges incurred when using the public-switched telephone network. However, **equipment vendors** are bringing out products that **cover** a broad range of approaches to IP telephony with very little commonality. Carriers and service...

...fax, and video IP-services package. The key to supporting these services is having bigger **pipes** into businesses, small offices, and homes.

17/3,K/2 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01412623 00063610

**Creative ways to update your tired areas on a tight budget**

Frable, Foster Jr

Nation's Restaurant News v31n16 PP: 164-165 Apr 21, 1997

ISSN: 0028-0518 JRNL CODE: NRN

WORD COUNT: 1349

...TEXT: utility chase for new electrical or water lines for new equipment. Painted steel or plastic **pipe** or ductwork can be crafted into a decorative chase enclosing the clutter of wires and **pipes** that proliferate in utility-intensive areas like **beverage** and cashier areas.

**Equipment** : Scratched and dented refrigerators, warmers and wall cabinets can be covered with plastic laminate or...

17/3,K/3 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

09806141 Supplier Number: 86053989 (USE FORMAT 7 FOR FULLTEXT)

**Dolphin Energy (DEL). (News in Brief: Regional).(to award contract for construction of pipeline) (Brief Article)**

MEED Middle East Economic Digest, v46, n17, p12(1)

April 26, 2002

Language: English Record Type: Fulltext

Article Type: Brief Article

Document Type: Magazine/Journal; General Trade

Word Count: 109

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...for key long-lead items to be installed on the Dolphin gas project. The inquiry **covers** API centrifugal compressors, gas turbine drivers, heat recovery steam generators, steam turbine and turbo-generators...

...Qatar. The estimated \$3,500 million Dolphin project involves the construction of a 440-kilometre **pipeline**, with capacity of 3,200 million cubic feet a day, to transport North field gas...

17/3,K/4 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

09187523 Supplier Number: 55981033 (USE FORMAT 7 FOR FULLTEXT)

**COMPANY PROFILES.**

Convenience Store News, v33, n10, p115

August 1, 1997

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 53726

... Fax: (716) 685-0160  
Contact(s): Eric Larson; V.P. Sales  
Product Lines & Products:  
BAKERY  
**BEVERAGES**  
Other Non-Alcoholic

HENRY VOGT MACHINE CO.  
1000 W. Ormsby St., Louisville, KY 40210  
(502...

...the-Counter Medications  
Condoms  
NON-FOOD/GENERAL MERCHANDISE  
Other Novelty Items  
PETROLEUM/PETROLEUM PRODUCTS  
Additives  
**SNACKS**  
Other  
TOBACCO PRODUCTS  
Lighters  
DISTRIBUTORS  
  
HERR FOODS, INC.  
20 Herr Dr., P.O. Box 300...

17/3,K/5 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

07391076 Supplier Number: 62237821 (USE FORMAT 7 FOR FULLTEXT)

**WASTE ELECTRICAL EQUIPMENT: INDUSTRY PREPARED TO ORGANISE VOLUNTARY SCHEME.**

European Report, pNA

May 20, 2000

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 1149

(USE FORMAT 7 FOR FULLTEXT)

**TEXT:**

The draft Directive which is being prepared **covers** incentives to reduce the number of waste electrical and electronic appliances and promote the re  
...

...musical instruments, lighting, medical equipment, monitors and surveillance equipment, toys, electric and electronic tools and **vending machines** . The Directive will also **cover** the components of these

products, irrespective of when the equipment was sold.Reducing reliance on  
...

...At very least, Directive 75/442/EEC on waste stipulates that all fluid  
must be **drained** off and all reusable or recyclable parts of the appliance  
must be made ready for...

...progress reports on the implementation of the new Directive. The first  
of these reports will **cover** the period 2002-2004. Member States will have  
to take public information measures and ensure...

**17/3,K/6 (Item 4 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2003 The Gale Group. All rts. reserv.

01643509 Supplier Number: 42033649 (USE FORMAT 7 FOR FULLTEXT)  
**European producers strive to outpace environmental codes**  
American Metal Market, p17  
April 29, 1991  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Tabloid; Trade  
Word Count: 899

... market, recycled 31 percent of its 125 million cans in 1989.  
All three countries are **basing** their efforts on a combination of  
scrap dealers, purchaser deposits and **reverse vending machines** .  
One obstacle to the industry's ambitious European plan is the Basel  
Convention, a treaty...

**17/3,K/7 (Item 1 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

15531122 SUPPLIER NUMBER: 96696932 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Benchmark input-output accounts of the United States, 1997.**  
Lawson, Ann M.; Bersani, Kurt S.; Fahim-Nader, Mahnaz; Guo, Jiemin  
Survey of Current Business, 82, 12, 19(91)  
Dec, 2002  
ISSN: 0039-6222 LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 60320 LINE COUNT: 27240

... control manufacturing 334512  
334513 Industrial process  
variable instruments 334513  
334514 Totalizing fluid meters  
and counting **devices** 334514  
334515 Electricity and signal  
testing instruments 334515  
334516 Analytical laboratory  
instrument ...body,  
trailer, and parts  
manufacturing 4 ...  
3364 Aerospace product and  
parts manufacturing ...  
336B Other transportation  
**equipment** manufacturing 29 ...  
3370 Furniture and related  
product manufacturing 15 ...  
3391 Medical equipment and  
supplies manufacturing...238

Search Report from Ginger D. Roberts

4830	Water transportation	...	22
4840	Truck transportation	...	...
4850	Transit and ground		
	passenger transportation	...	...
4860	<b>Pipeline</b> transportation	...	...
48A0	Sightseeing transportation		
	and transportation		
	support	...	7
4920	Couriers and messengers	...	...
4930	Warehousing and...		
Rail transportation		...	...
4830	Water transportation	...	...
4840	Truck transportation	...	...
4850	Transit and ground		
	passenger transportation	...	...
4860	<b>Pipeline</b> transportation	...	...
48A0	Sightseeing transportation		
	and transportation		
	support	...	...
4920	Couriers and messengers	...	...
4930	Warehousing and storage...		

**17/3,K/8 (Item 2 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

15153654 SUPPLIER NUMBER: 91808047 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Current labor statistics.(Statistical Data Included)**

Monthly Labor Review, 125, 5, 57(69)

May, 2002

DOCUMENT TYPE: Statistical Data Included ISSN: 0098-1818

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 40309 LINE COUNT: 15791

... unit profits.

Unit profits include corporate profits with inventory valuation and capital consumption adjustments per **unit** of output.

Hours of all persons are the total hours at work of payroll workers  
...and utilities 150.8

Fuels 136.3

Fuel oil and other fuels 138.1

Gas ( **pip**ed

) and electricity 142.6

Household furnishings and operations 129.1

Apparel 132.2

Men's...

**17/3,K/9 (Item 3 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

15029448 SUPPLIER NUMBER: 92286157 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Piping designers reply. (Letters to the Editor).**

Hydrocarbon Processing, 81, 9, 41(1)

Sept, 2002

ISSN: 0018-8190 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 419 LINE COUNT: 00035

TEXT:

In response to the comments about the layout and design of HP'S April

**cover** , layout is at the design process's very beginning. At that time, only the process...

...diagrams are being developed. Vendors have yet to be selected, thus there is no certified **vendor** information. The many **equipment** and **pipe** size dimensions are subject to change.

17/3,K/10 (Item 4 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

08124425 SUPPLIER NUMBER: 17389671 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Plastics technology: manufacturing handbook & buyers' guide 1995/96. (Buyers Guide)**  
Plastics Technology, v41, n8, pCOV(941)  
August, 1995  
DOCUMENT TYPE: Buyers Guide ISSN: 0032-1257 LANGUAGE: English  
RECORD TYPE: Fulltext  
WORD COUNT: 174436 LINE COUNT: 15187

... or other process variables activate alarms for corrective action.  
SPC software collects samples of every **machine** 's process values.  
Upper and lower control limits are compared to actual recordings, and alarms...Duosense control loops and Digisynch digital control and synchronization of rpm. Tube-Trol, Sheetrol, or **Pipe** -Trol systems provide closed-loop ...thickness-profile display, which provides ready reference for die-centering setup, typically on wire or **pipe** lines. Closed-loop puller or extruder control maintains wall thickness within the set range. Alarms...and failed or broken thermocouple override.

Sentry Pro 1000 controls and monitors small lines for **pipe** , profile, tubing, and single extruders. Has operator interface with menu-driven touchscreen and optional real...

...Gravitrol systems are used on coextrusion processes such as blown film, cast film, sheet, tube, **pipe** , profile, and wire and cable. Layer percentages of + or -10.25% by weight can be...

...ad p. 342; data sheets pp. 379-384.)

ROLLEPAAL USA

Modular process-control systems for **pipe** extrusion include ultrasonic 360 degrees| wall-thickness measurement, puller control, curer control, die-centering, temperature control, gravimetric extruder-output control, automatic calibration, production scheduling, overweight and scrap registration, **pipe** OD measurement and control, vacuum control, SPC functions, and data storage and retrieval.

SOLID CONTROLS...and Heating Elements

PRODUCT LINES REVIEWED

ACROLAB LTD.

In cooperation with Bucher, Inc., offers heat **pipes** for optimizing thermoset mold heating. Heat **pipes** together with tubular electric heaters reportedly allows even heat distribution over cavity surface, including deep...

17/3,K/11 (Item 5 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2003 The Gale Group. All rts. reserv.

05144343 SUPPLIER NUMBER: 10665633 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**European producers strive to outpace environmental codes. (Can Recycling)**  
Kuster, Ted  
American Metal Market, v99, n81, p17(2)

April 29, 1991

ISSN: 0002-9998

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 943

LINE COUNT: 00073

... market, recycled 31 percent of its 125 million cans in 1989.

All three countries are **basing** their efforts on a combination of scrap dealers, purchaser deposits and **reverse vending machines**.

One obstacle to the industry's ambitious European plan is the Basel Convention, a treaty...

17/3,K/12 (Item 1 from file: 160)

DIALOG(R)File 160:Gale Group PROMT(R)

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00718234

**The ETSI Pipeline Project system will move 37.**

Coal Mining & Processing November, 1981 p. 56-63

4mil tpy of coal in slurry from the Powder River **Basin** in Wyoming to power and industrial plants in the midsouth using 38'' dia underground **pipe** to **cover** 1,700 mi; start-up: 1985. ETSI carried out state-of-the-art investigation of commercially proven dewatering equipment and a lab-scale vendor test program on selected dewatering **equipment**. Results of the **vendor** test program confirmed the initial selection of screen- **bowl** centrifuges for primary dewatering and solid- **bowl** centrifuges for secondary dewatering. Article examines the dewatering system, the Mohave system, pilot plant tests...

17/3,K/13 (Item 1 from file: 9)

DIALOG(R)File 9:Business & Industry(R)

(c) 2003 Resp. DB Svcs. All rts. reserv.

03076715

**Critics target 'omnipresent' ads**

(EarthLink is one marketer that is using creativity in advertising by placing ads in restrooms touting its respect for one's privacy; ads are **cropping up on practically every inanimate object, from mailboxes to trash cans, from stadiums to automated teller machines**)

USA Today, v 19, n 128, p 6B

March 16, 2001

DOCUMENT TYPE: National Newspaper ISSN: 0161-7389 (United States)

LANGUAGE: English RECORD TYPE: Abstract

ABSTRACT:

...was ABC's placing their ads on bananas, door hangers, beach trash cans and candy **bowls**. However, in an opposite move, Coca-Cola has announced it will **cover** its company logo on 100,000 school **vending machines** and will add more juices and bottled water options on those machines.

...

17/3,K/14 (Item 2 from file: 9)

DIALOG(R)File 9:Business & Industry(R)

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01671810 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**PEPSI SET TO TEST NEW ALL-BLUE CAN DESIGN**

(Pepsico Inc will begin testing a radical packaging redesign for its Pepsi soft drink brand in Des Moines, IA and New Orleans, LA)

Atlanta Journal & Constitution , p N/A

November 05, 1996

DOCUMENT TYPE: Regional Newspaper ISSN: 0093-1179 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 660

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...not Coke." Still, Coca-Cola is watching Pepsi, which has been repainting trucks and changing **vending machine covers** in the two test markets. The Atlanta beverage giant has routed its Santa Truck, a...

...focal part of Coca-Cola's marketing in January. The city is hosting the Super **Bowl** this year. As the National Football League's official soft drink, Coca-Cola typically sponsors...

...in the host city during the week of the game. And it usually blankets Super **Bowl** cities with red banners, inflatable cans and signs. On the other side, Pepsi's bottlers...

17/3,K/15 (Item 1 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter

(c) 2003 The Dialog Corp. All rts. reserv.

24833032

**IMI plc presents its First Half Results**

HUGIN

September 09, 2002

JOURNAL CODE: FHUG LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 1075

...business are around \$250m, up from \$100m in 2000. Building Products In Building Products, the **pipe** businesses within Polypipe performed well despite upward pressure on PVC prices. Elsewhere in Polypipe the...

17/3,K/16 (Item 1 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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02587848 Supplier Number: 45231104 (USE FORMAT 7 FOR FULLTEXT)

**Changing politics have an impact on Guatemala's growth**

Market Latin America, v3, n1, pN/A

Jan, 1995

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 2153

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...at John Hopkins University in the United States, urbanization in Central America and the Caribbean **Basin** does not follow the patterns seen in industrialized countries. For example, in the metropolitan region...

...in the metropolitan area. These areas are often without basic services such as sewer and **piped** -in water, or even electricity. One estimate puts the population of the slums as 21...

...goods, electric household appliances, auto parts, and security systems for homes and automobiles. Purchases from **vending machines** are also popular. Guatemalan consumers are environmentally conscious. In fact, Guatemala City is promoting a...

Search Report from Ginger D. Roberts

...project, called Metropolis 2010, to develop the city's infrastructure.  
The road network in Guatemala **covers** 15,100 kilometers of which only  
3,425 kilometers are paved. The railroad system (FEGUA...  
?



?show files;ds

File 2:INSPEC 1969-2003/Mar W1  
 (c) 2003 Institution of Electrical Engineers  
 File 35:Dissertation Abs Online 1861-2003/Feb  
 (c) 2003 ProQuest Info&Learning  
 File 65:Inside Conferences 1993-2003/Mar W2  
 (c) 2003 BLDSC all rts. reserv.  
 File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Jan  
 (c) 2003 The HW Wilson Co.  
 File 233:Internet & Personal Comp. Abs. 1981-2003/Feb  
 (c) 2003 Info. Today Inc.  
 File 256:SoftBase:Reviews,Companies&Prods. 82-2003/Jan  
 (c)2003 Info.Sources Inc  
 File 474:New York Times Abs 1969-2003/Mar 12  
 (c) 2003 The New York Times  
 File 475:Wall Street Journal Abs 1973-2003/Mar 12  
 (c) 2003 The New York Times  
 File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
 (c) 2002 The Gale Group

Set	Items	Description
S1	172651	COVER OR COVERS OR COVERPLATE? ? OR (EXTERIOR OR OUTSIDE OR CONCEALMENT? OR FACE OR FRONT OR FACIA) (2W) PLATE? ?
S2	533	FACEPLATE? ? OR FRONTPLATE? ?
S3	6555	(VENDING OR VENDOR? OR CANDY? OR SODA? OR BEVERAGE? OR SNA-CK?) (3N) (MACHINE? ? OR EQUIPMENT? OR UNIT? OR DEVICE? OR APPA-RATUS?)
S4	11128	(OUTPUT? OR OUT()PUT? OR RETURN? OR GIVE? OR GIVING OR EXP-ELL? OR EXCHANG?) (4N) (MONEY OR MONIES OR CASH OR DOLLAR OR CO-IN? ?)
S5	1890	(RECEIV? OR RECEPTION? OR INPUT? OR INSERT? OR PLACE? OR P-LACING OR PUTTING) (4N) (CANS OR ALUMINUM OR ALUMINIUM OR BOTTL-E? ? OR CONTAINER? ?)
S6	7512	(DRIP? OR FLUID? OR CONTENT? ? OR DRAIN?) (5N) (BASIN? OR BO-WL? ? OR LIP? ? OR INSET? OR AREA OR OPENING OR PIPE? ?)
S7	92	(S1 OR S2) AND S3
S8	0	S4 AND S7
S9	0	S5 AND S8
S10	0	S6 AND S9
S11	0	S5 AND S7
S12	36	(REVERSE) (3N) S3
S13	0	S6 AND S12
S14	1	S7 AND (DRAIN? OR PIPE?)
S15	1	S14 NOT (S11 OR S12)
S16	0	S12 AND (DRAIN? OR PIPE?)
S17	0	S16 NOT S11
S18	1	S15 NOT (S11 OR S12 OR S16)
S19	37	S12 OR S14 OR S15 OR S18
S20	37	RD S19 (unique items)
S21	27	S20 NOT PY>1999
S22	1	S21 AND (DRAIN? OR PIPE? OR BASIN? OR DRIP? OR BOWL?)
?		

?t21/3,k/all

**21/3,K/1 (Item 1 from file: 99)**  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2003 The HW Wilson Co. All rts. reserv.

2261112 H.W. WILSON RECORD NUMBER: BAST99059580  
**Recycling containers serve " reverse vending " machines**  
Modern Materials Handling v. 54 noll (Mid-Sept. 1999) p. 92  
DOCUMENT TYPE: Feature Article ISSN: 0026-8038

**Recycling containers serve " reverse vending " machines**

...ABSTRACT: section on packaging machines and materials. The use of specially designed "sleeve packs" to serve " **reverse vending " machines** is reported. The benefits of this packaging system for handling and storage are highlighted.

DESCRIPTORS: ... **Reverse vending machines ;**

**21/3,K/2 (Item 2 from file: 99)**  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2003 The HW Wilson Co. All rts. reserv.

2070943 H.W. WILSON RECORD NUMBER: BAST88047687  
**Store machine gobbles up PET**  
Packaging (Boston, Mass.) v. 33 (Sept. 1988) p. 29  
DOCUMENT TYPE: Feature Article ISSN: 0746-3820

DESCRIPTORS: ... **Reverse vending machines ;**

**21/3,K/3 (Item 3 from file: 99)**  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2003 The HW Wilson Co. All rts. reserv.

2070258 H.W. WILSON RECORD NUMBER: BAST87035173  
**Steel can recycling gets boost from reverse vending**  
Cassidy, Victor M;  
Modern Metals v. 43 (July 1987) p. 56+  
DOCUMENT TYPE: Feature Article ISSN: 0026-8127

DESCRIPTORS: ... **Reverse vending machines ;**

**21/3,K/4 (Item 4 from file: 99)**  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2003 The HW Wilson Co. All rts. reserv.

1919733 H.W. WILSON RECORD NUMBER: BAST88051960  
**New systems speed, simplify can recycling**  
Cassidy, Victor M;  
Modern Metals v. 44 (Oct. 1988) p. 104+  
DOCUMENT TYPE: Feature Article ISSN: 0026-8127

DESCRIPTORS: ... **Reverse vending machines ;**

**21/3,K/5 (Item 5 from file: 99)**  
DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs  
(c) 2003 The HW Wilson Co. All rts. reserv.

1919599 H.W. WILSON RECORD NUMBER: BAST86003177

Reverse vending machines provide a new source for cullet

Glass Industry v. 66 (Dec. 10 1985) p. 26

DOCUMENT TYPE: Feature Article ISSN: 0017-1026

Reverse vending machines provide a new source for cullet

DESCRIPTORS: ... Reverse vending machines ;

21/3,K/6 (Item 1 from file: 233)

DIALOG(R)File 233:Internet & Personal Comp. Abs.

(c) 2003 Info. Today Inc. All rts. reserv.

00528806 99DC03-005

**NPN: products & technologies for carrier IP networks**

Data Communications , March 1, 1999 , v28 n3 pNPN1-NPN24, 16 Page(s)

ISSN: 0363-6399

...details about IP architectures; ``Data Links'' by Peter Heywood (p7), discussing Java implementations; ``In the Pipeline '' by David Greenfield (p9-10), discussing Netcentrex's Maestro Voice-Over-IP Phone System, saying ...

... ATM: The Fault Line'' by Robert Mandeville and David Newman (p12-16), the supplement's cover story which discusses lab tests of switches from five vendors; and ``IADs: Bundle Up for the Last Mile'' by Andrew Cray (p19-24), discussing IAD's (integrated access devices ), listing vendors with features and prices. Includes four sidebars, three bar charts, three diagrams, two tables, and...

21/3,K/7 (Item 1 from file: 475)

DIALOG(R)File 475:Wall Street Journal Abs

(c) 2003 The New York Times. All rts. reserv.

06290940

**BUSINESS BULLETIN**

Wall Street Journal, Col. 5, Pg. 1, Sec. A

Thursday December 31 1992

ABSTRACT:

...machine that makes a game out of recycling; customers who put empty cans into the ' reverse vending machine ' set four wheels spinning, with a chance to win coupons for free items (S)

21/3,K/8 (Item 1 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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06441028

Lucky Cans to encourage recycling

SINGAPORE: MACHINE TO ENCOURAGE CAN RECYCLING

Retail Asia (XAO) Feb 1997 P.63

Language: ENGLISH

...of used cans in Singapore, Recycling Industries Singapore has spent S\$ 2 mn in buying reverse vending machines that collect used drink cans. In 1995, Singapore generated 507 mn used cans and Recycling...

21/3,K/9 (Item 2 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

06369254  
Recycling goes into reverse  
UK: SOMERFIELD INTRODUCES RECYCLING MACHINES  
Packaging Week (PWK) 12 Sep 1996 p.23  
Language: ENGLISH

The **Reverse Vending Machine** (RVM), a recycling machine distributed in the UK by Herbert & Sons, has been introduced by...

21/3,K/10 (Item 3 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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06354858  
Somerfield to push recycling drive with money-off scheme  
UK: SOMERFIELD RECYCLING SCHEME OFFERS PAYMENT  
Marketing Week (MW) 16 Aug 1996 p.11  
Language: ENGLISH

... money-off vouchers in return for recycling cans and bottles. The scheme will work using **reverse vending machines**, similar to those used in Norway and Germany, that read barcodes. The move, which comes...

21/3,K/11 (Item 4 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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06240043  
Finland hopes for domestic can production  
FINLAND: ALUMINIUM CAN PRODUCTION MAY RESUME  
Packaging Week (PWK) 07 Dec 1995 p.8  
Language: ENGLISH

... payment of FM 1 will be made, as with an existing similar scheme for bottles. **Reverse vending machines** will be used to supplement the scheme. The Finnish Packaging Association says domestic aluminium can...

21/3,K/12 (Item 5 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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05856463  
More can recycling machines on the way  
SINGAPORE: 280,000 DRINK CANS RECYCLED  
The Straits Times (XBB) 14 May 1993 p.33  
Language: ENGLISH

... 000 drink cans were recycled between November 1992 to April 1993 by 2 Swiss-manufactured "**reverse vending machines**". The firm intends to bring in another 10 such machines in July 1993 where 8...

21/3,K/13 (Item 6 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)

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05608152

**reverse vending machine** ' makes national debut at Hypercol/  
ISRAEL - **REVERSE VENDING MACHINE** MAKES HYPERCOL DEBUT  
Jerusalem Post (JP) 21 December 1992 p8

**reverse vending machine** ' makes national debut at Hypercol/  
ISRAEL - **REVERSE VENDING MACHINE** MAKES HYPERCOL DEBUT

Israel: Italian-made **reverse vending machines** which crush plastic **beverage** bottles for recycling have made their national debut at four Hypercol branches. The machines were...

21/3,K/14 (Item 7 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

05296574

TOMRA OKAR VINSTEN  
SWEDEN - TOMRA FORECASTS RISE IN TURNOVER FOR 1992  
Packmarknaden Scandinavia (PS) 0 August 1992 p23  
ISSN: 0348-260X  
Language: Swedish

Tomra, maker of **reverse vending machines** , forecasts a 20% rise in turnover for 1992 as a result of the fast growth...

21/3,K/15 (Item 8 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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05108736

Recycling in Italy  
ITALY - RECYCLING ACTIVITIES PROFILED  
Materials Reclamation Weekly (MRW) 16 May 1992 p10  
ISSN: 0025-5386

... 100k t of cullet from other sources. There are 3k plastic bottle banks and 110 **reverse vending machines** . Three consortia have been set up for metal, plastics and glass with targets of 50...

21/3,K/16 (Item 9 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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04874224

Recycling van PET-verpakkingen  
EUROPE - REVIEW OF PET PACKAGING USE AND RECYCLING  
Kunststof & Rubber Maanblad (KER) 0 February 1992 p44-45  
ISSN: 0167-9597  
Language: Dutch

... 60% of collected material is sent for recycling. The most expensive collection method is the **reverse vending machine** , and the cheapest is to use boxes where the consumer separates waste before collection. Article ...

21/3,K/17 (Item 10 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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04858536

Help with recycling in-store

AUSTRALIA - GEC AVERY LAUNCHES **REVERSE VENDING MACHINES**  
Retail World (RWD) 20 January 1992 p9  
ISSN: 0034-6136

AUSTRALIA - GEC AVERY LAUNCHES **REVERSE VENDING MACHINES**

GEC Avery has launched the Tomra **reverse vending machine**, which will accept plastic and glass bottles, crates and aluminium cans, issuing the user with...

... the shopper is deducted from the cost of the goods purchased. The computer in the **reverse vending machine** can give information on types and numbers of bottles and crates received, and also stores...

21/3,K/18 (Item 11 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

04392211

ENVIRONMENTAL PRODUCTS' VENDING MACHINES MAKE THEIR MARK

US - ENVIRONMENTAL PRODUCTS' VENDING MACHINES MAKE THEIR MARK  
Food Institute Report (FIR) 6 July 1991 p2

...manufacturer with USDlr528k profit in 1990 on a turnover of USDlr33 mil, has introduced its **reverse vending machines** into nine out of ten US states, where there is container deposit legislation. EP's...

21/3,K/19 (Item 12 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

03768425

Mer soppel med bokser

SWEDEN/NORWAY - ALUMINIUM CANS RESULT IN MORE WASTE  
Dagens Naeringsliv (DN) 8 October 1990 p14  
Language: Norwegian

...and of these 82% are recycled. Since 1984 Sweden has operated a system using **reverse vending machines** and set a target of 90% of cans being recycled. H Biong of Norges Markedsforskning...

...NKr3.50/can environment tax and some 20 mil cans are sold/y. If a **reverse vending machine** system was adopted in Norway, sales of drinks in aluminium cans is expected to 500...

21/3,K/20 (Item 13 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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03738390

MASSA INSTALLS LUCKY CAN **REVERSE VENDING MACHINES**

W GERMANY - MASSA INSTALLS LUCKY CAN **REVERSE VENDING MACHINES**  
Lebensmittel Zeitung (LZ) 14 September 1990 p7

Language: German

MASSA INSTALLS LUCKY CAN **REVERSE VENDING MACHINES**  
W GERMANY - MASSA INSTALLS LUCKY CAN **REVERSE VENDING MACHINES**

Massa (W Germany), supermarket chain, has installed three 'Lucky Can' **reverse vending machines** at its Mainz-Bretzenheim supermarket. The user of the machines has the opportunity to win...

**21/3,K/21 (Item 14 from file: 583)**  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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03686453  
NEW **REVERSE VENDING MACHINE** FROM HILDENER TOMRA  
W GERMANY - NEW **REVERSE VENDING MACHINE** FROM HILDENER TOMRA  
Lebensmittel Zeitung (LZ) 10 August 1990 p58  
Language: German

NEW **REVERSE VENDING MACHINE** FROM HILDENER TOMRA  
W GERMANY - NEW **REVERSE VENDING MACHINE** FROM HILDENER TOMRA

Hildener Tomra (W Germany) has brought out a new series in its range of **reverse vending machines**. Aimed at retail traders, the machines accept empty bottles in return for a coupon, which...

**21/3,K/22 (Item 15 from file: 583)**  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

02908219  
COOKSONS PLASTICS MAY INVEST IN REPROCESSING PLANT  
UK - COOKSONS PLASTICS MAY INVEST IN REPROCESSING PLANT  
Independent (TI) 11 September 1989 p17

...also start recycling PET, while the Tesco outlet in Colney Hatch has set up a **Reverse Vending Machine**. Cooksons' proposed plant would need at least 4k t/y of PET to make it...

**21/3,K/23 (Item 16 from file: 583)**  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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02896016  
TESCO TO LAUNCH PET BOTTLE RECYCLING SCHEME  
UK - TESCO TO LAUNCH PET BOTTLE RECYCLING SCHEME  
Plastics & Rubber Weekly (PRW) 19 August 1989 p1,3  
ISSN: 0032-1168

...rate of 1 every 4 or 5 seconds by a Dutch Staalcat PET-O-Mat **reverse vending machine**, which will be collected by Cookson on a daily or weekly basis and sent to...

**21/3,K/24 (Item 17 from file: 583)**  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
(c) 2002 The Gale Group. All rts. reserv.

02754188

KLP PLANS TO LAUNCH **REVERSE VENDING MACHINE**

UK - KLP PLANS TO LAUNCH **REVERSE VENDING MACHINE**

Packaging Week (PWK) 21 June 1989 p3

ISSN: 0267-6117

KLP PLANS TO LAUNCH **REVERSE VENDING MACHINE**

UK - KLP PLANS TO LAUNCH **REVERSE VENDING MACHINE**

If sponsorship deals go ahead, KLP, promotion concern, will introduce a **reverse vending machine** in the UK in the near future. The machine is produced by Egapro of Switzerland...

21/3,K/25 (Item 18 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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02184239

KANSMACKER LAUNCHES BOTTLE RECYCLING MACHINERY

US - KANSMACKER LAUNCHES BOTTLE RECYCLING MACHINERY

Packaging (USA) (PG) 0 September 1988 p29

ISSN: 0746-3820

Kansmacker has a range of **reverse - vending machines** for aluminium cans, and is now test marketing similar machines for PET bottles. The machine...

21/3,K/26 (Item 19 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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00424010

EEC DIRECTIVES ON CAN RECYCLING

EUROPE - EEC DIRECTIVES ON CAN RECYCLING

Grocer (GR) 26 July 1986 p11

ISSN: 0017-4351

... conservation efforts is Carrefour, whose Birmingham branch is participating in a pilot scheme with a **reverse vending machine**. The **unit** pays 6p for every 10 aluminium cans. An estimated 37m cans are bought each year...

21/3,K/27 (Item 20 from file: 583)

DIALOG(R)File 583:Gale Group Globalbase(TM)

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00132387

CANNING SYSTEM FOR NON-CARBONATED DRINKS

US - CANNING SYSTEM FOR NON-CARBONATED DRINKS

Beverage World (BW) 0 January 1986 p53

ISSN: 0098-2318

... company has doubled the size of its aluminium recycling operations with acquisition of 45 automatic **reverse vending machines**.



?t22/7/all

22/7/1 (Item 1 from file: 233)  
DIALOG(R)File 233:Internet & Personal Comp. Abs.  
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00528806 99DC03-005

**NPN: products & technologies for carrier IP networks**

Data Communications , March 1, 1999 , v28 n3 pNPN1-NPN24, 16 Page(s)

ISSN: 0363-6399

Presents a special section analyzing the emerging public IP infrastructure. Articles include ``Judgement Call: Introducing NPN'' (p4) by Lee Keough, saying the reasoning behind the new supplement is the need for details about IP architectures; ``Data Links'' by Peter Heywood (p7), discussing Java implementations; ``In the Pipeline '' by David Greenfield (p9-10), discussing Netcentrex's Maestro Voice-Over-IP Phone System, saying it is the first VOIP gear to let carriers offer Centrex apps like voice mail, call forwarding, caller ID, and call conferencing; ``Frame Relay to ATM: The Fault Line'' by Robert Mandeville and David Newman (p12-16), the supplement's **cover** story which discusses lab tests of switches from five vendors; and ``IADs: Bundle Up for the Last Mile'' by Andrew Cray (p19-24), discussing IAD's (integrated access **devices** ), listing **vendors** with features and prices. Includes four sidebars, three bar charts, three diagrams, two tables, and two photos. (KMH)

?

Search Report from Ginger D. Roberts

?show files;ds

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200317

(c) 2003 Thomson Derwent

File 344:Chinese Patents Abs Aug 1985-2003/Jan

(c) 2003 European Patent Office

File 347:JAPIO Oct 1976-2002/Nov(Updated 030306)

(c) 2003 JPO & JAPIO

File 371:French Patents 1961-2002/BOPI 200209

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Set	Items	Description
S1	718050	COVER OR COVERS OR COVERPLATE? ? OR (EXTERIOR OR OUTSIDE OR CONCEALMENT? OR FACE OR FRONT OR FACIA) (2W) PLATE? ?
S2	5345	FACEPLATE? ? OR FRONTPLATE? ?
S3	36166	(VENDING OR VENDOR? OR CANDY? OR SODA? OR BEVERAGE? OR SNA-CK?) (3N) (MACHINE? ? OR EQUIPMENT? OR UNIT? OR DEVICE? OR APPA-RATUS?)
S4	4418	(OUTPUT? OR OUT()PUT? OR RETURN? OR GIVE? OR GIVING OR EXP-ELL? OR EXCHANG?) (4N) (MONEY OR MONIES OR CASH OR DOLLAR OR CO-IN? ?)
S5	51693	(RECEIV? OR RECEPTION? OR INPUT? OR INSERT? OR PLACE? OR P-LACING OR PUTTING) (4N) (CANS OR ALUMINUM OR ALUMINIUM OR BOTTL-E? ? OR CONTAINER? ?)
S6	85651	(DRIP? OR FLUID? OR CONTENT? ? OR DRAIN?) (5N) (BASIN? OR BO-WL? ? OR LIP? ? OR INSET? OR AREA OR OPENING OR PIPE? ?)
S7	1587	(S1 OR S2) AND S3
S8	44	S4 AND S7
S9	0	S5 AND S8
S10	0	S6 AND S9
S11	39	S5 AND S7
S12	31	(REVERSE) (3N) S3
S13	0	S6 AND S12
S14	71	S7 AND (DRAIN? OR PIPE?)
S15	68	S14 NOT (S11 OR S12)
S16	2	S12 AND (DRAIN? OR PIPE?)
S17	1	S16 NOT S11
S18	68	S15 NOT (S11 OR S12 OR S16)
S19	58	S18 NOT PR=19990501:99999999
?		

?t19/3,k/all

**19/3,K/1 (Item 1 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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015058584 \*\*Image available\*\*

WPI Acc No: 2003-119100/200311

XRAM Acc No: C03-030714

XRPX Acc No: N03-094777

**Decorative article used e.g. as eye glass frame, shaver, tooth brush stem or head rest, has decorative surface and integrally formed polymeric base comprising transparent cycloaliphatic polyester resin free from aromatic groups**

Patent Assignee: GENERAL ELECTRIC CO (GENE )

Inventor: GROOTHUIS A H L; HONIGFORT P; HOOGLAND G; LAURIN M M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6465102	B1	20021015	US 2001815350	A	20010322	200311 B
			US 2001892718	A	20010618	

Priority Applications (No Type Date): US 2001892718 A 20010618; US 2001815350 A 20010322

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6465102 B1 13 B32B-027/36 CIP of application US 2001815350

Abstract (Basic):

... As eye glass frame, shaver, tooth brush stem, head rest, film yarn, covered wire **pipe** joined, hood tray, plaque, car port roof, sign board display, name board, lighting **cover**, **vending machine cover**, exhibit partition **cover**, machine **cover** or housing, sheet, silencer board, bath tub, **draining** mass, eaves trough, window, auto glazing, window frame, wall-paper, floor board, house exterior board...

**19/3,K/2 (Item 2 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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015005608 \*\*Image available\*\*

WPI Acc No: 2003-066125/200306

XRAM Acc No: C03-017114

**Apparatus, for recovery of heat and chemicals from vapor-gas outbursts of melt solvent in soda recovering unit of sulfate cellulose production**

Patent Assignee: UNIV ST PETERSBURG TECHN & DESIGN (UYSP-R)

Inventor: GOGONIN I I; ROMANOVA L V; SUSLOV V A; YAKIMOVA I V

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
RU 2190714	C1	20021010	RU 2001128052	A	20011017	200306 B

Priority Applications (No Type Date): RU 2001128052 A 20011017

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

RU 2190714 C1 D21C-011/06

**Apparatus, for recovery of heat and chemicals from vapor-gas outbursts of melt solvent in soda recovering unit of sulfate cellulose production**

Abstract (Basic):

... to horizontal surface and faced with its lower wall to melt

solvent tank, and suction **pipe** . Apparatus has additional heat-exchanger at an angle of 10-30 degrees to horizontal plane and connected to first heat-exchanger through two **pipes** of complicated profile. **Pipes** are on rear wall of first heat-exchanger, with space between **pipes** making 1/3 - 1/2 the width of heat-exchanger. Suction **pipe** is on **cover** of additional heat-exchanger. Inclination angle of first heat-exchanger is 5-15 degrees. Inclination angle ratio of additional and first heat-exchangers is 2-6. **Pipes** of first and additional heat-exchangers are arranged in staggered rows.

**19/3,K/3 (Item 3 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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013581035 \*\*Image available\*\*

WPI Acc No: 2001-065242/200108

XRAM Acc No: C01-018370

XRPX Acc No: N01-049318

**Cover sheet for fluorescent lamp pipe , comprising plastic sheet with ultraviolet absorptivity, is wound around pipe , heated and attached in cylindrical shape**

Patent Assignee: SHIMANAKA H (SHIM-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000276922	A	20001006	JP 9979820	A	19990324	200108 B

Priority Applications (No Type Date): JP 9979820 A 19990324

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000276922	A	3	F21V-009/08	

**Cover sheet for fluorescent lamp pipe , comprising plastic sheet with ultraviolet absorptivity, is wound around pipe , heated and attached in cylindrical shape**

Abstract (Basic):

... A **cover** sheet (1) for fluorescent lamp **pipe** comprises plastic sheet with ultraviolet absorptivity. The sheet is wound around the **pipe** , heated and attached in cylindrical shape on the **pipe** .

... For covering fluorescent lamp **pipes** in foodstuff works, automatic **vending machine** and laundromat...

Title Terms: **COVER ;**

**19/3,K/4 (Item 4 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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013555686 \*\*Image available\*\*

WPI Acc No: 2001-039892/200105

XRPX Acc No: N01-029690

**Hot beverage preparing apparatus**

Patent Assignee: KAMYSHEV A V (KAMY-I)

Inventor: AVERINA L M; ERMOLAEVA A S; KAMYSHEV A V; ZHIDETSKII G U

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
RU 2154972	C2	20000827	RU 98121621	A	19981202	200105 B

Priority Applications (No Type Date): RU 98121621 A 19981202

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
RU 2154972 C2 A47J-031/04

**Hot beverage preparing apparatus**

Abstract (Basic):

... Hot **beverage preparing apparatus** has detachable upper and lower vessels, brewing insert with perforated bottom for accommodating product, filter and removable siphon with valve. Upper vessel with **cover** is hermetically connected to lower vessel equipped with emergency valve. Valve is made in the...

...least two ready hot beverage discharge openings, which are connected to central opening of siphon **pipe**. Angle of inclination of openings relative to truncated cone axis is within the range of...

19/3,K/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013552294 \*\*Image available\*\*

WPI Acc No: 2001-036500/200105

XRPX Acc No: N01-028850

**Non-return valve for drain pipe of air conditioner, has hole covered by flexible valve arranged on center section of valve and is separated from valve seat even if very small amount of waste water contacts it**

Patent Assignee: TOKO ELECTRIC (TOKO-N); YOTSUGI KK (YOTS-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000303531	A	20001031	JP 99111472	A	19990419	200105 B

Priority Applications (No Type Date): JP 99111472 A 19990419

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
JP 2000303531 A 10 E03C-001/298

**Non-return valve for drain pipe of air conditioner, has hole covered by flexible valve arranged on center section of valve...**

Abstract (Basic):

... For **drain pipes** of air conditioners in motor vehicle, refrigerator, automatic **vending machine** for cool drinking water...

...Water is **drained** immediately as valve is opened readily even when it contacts very small amount of water...

...insects, rodents are prevented by the non-return valve. Valve is flexible and so closes **draining** of water...

...Title Terms: **DRAIN** ;

19/3,K/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013519960 \*\*Image available\*\*

WPI Acc No: 2001-004166/200101

XRPX Acc No: N01-003767

**Microwave oven for domestic and commercial use, has injector which**

**injects hot air to make hole in resin film covering foodstuff, before cooking**

Patent Assignee: SHARP KK (SHAF )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000291957	A	20001020	JP 9996801	A	19990402	200101 B

Priority Applications (No Type Date): JP 9996801 A 19990402

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000291957	A		16	F24C-001/02	

Abstract (Basic):

... through a tube (9) and heated by a heating element (7) installed inside a metal **pipe** (10). The hot air is injected in the shape of spot on the resin film...

... Microwave oven with hot air injection function for domestic, commercial use and automatic **vending machine** .

...

...Metal **pipe** (10

...Title Terms: **COVER** ;

19/3,K/7 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

013367177 \*\*Image available\*\*

WPI Acc No: 2000-539116/200049

XRFX Acc No: N00-399663

**Water intake apparatus of river for beverage , industry, cultivation, has receptacle at downstream side of weir, covered with filter, at preset inclination angle in which inlet pipe , and air supply pipe are arranged**

Patent Assignee: SANDAI KIDEN KK (SAND-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000212940	A	20000802	JP 9913660	A	19990121	200049 B

Priority Applications (No Type Date): JP 9913660 A 19990121

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000212940	A		8	E02B-005/08	

**Water intake apparatus of river for beverage , industry, cultivation, has receptacle at downstream side of weir, covered with filter, at preset inclination angle in which inlet pipe , and air supply pipe are arranged**

Abstract (Basic):

... 11) is provided at downstream side of weir (10). A filter (12) is provided to **cover** the receptacle, which is inclined at angle 5-45 degrees from upper end of dam. An air supply **pipe** (15) with pores is laid parallel to the receptacle and connected to an accumulator. A water intake **pipe** is arranged in the receptacle.

...Title Terms: **COVER** ;

19/3,K/8 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX  
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013322208      \*\*Image available\*\*  
WPI Acc No: 2000-494147/200044  
XRPX Acc No: N00-366955

**Nitrogen gas packing apparatus for alcoholic beverage container, has timer in solenoid valve unit to cut off solenoid valve after lapse of specific time from opening by packing start switch**

Patent Assignee: SATO T (SATO-I)  
Number of Countries: 001    Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000185709	A	20000704	JP 98360454	A	19981218	200044 B

Priority Applications (No Type Date): JP 98360454 A 19981218

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000185709	A		7 B65B-031/04	

**Nitrogen gas packing apparatus for alcoholic beverage container, has timer in solenoid valve unit to cut off solenoid valve after lapse of...**

Abstract (Basic):

...      Nozzle system (4) comprises holding unit (14) and a plug (17) arranged on nozzle **pipe** (16). The holding unit connected at top with air supply hose (6) from inert gas...

...      The plug is displaceably arranged below the holding unit on the nozzle **pipe** to contact actuator of the switch by its upper portion to initiate opening of the solenoid valve. The plug includes inverted truncated cone-shaped taper section (17B) integral with **cover** section (17A). The **cover** section has sealing surface (S) to contact opening circumferential surface (8A) of a container (8...

...As the plug is slidably arranged at nozzle **pipe** to contact actuator of packing start switch operation of the switch is simple. Since solenoid ...

...Nozzle **pipe** (16...

... **Cover** section (17A

19/3,K/9      (Item 9 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

013320323      \*\*Image available\*\*  
WPI Acc No: 2000-492261/200044  
XRAM Acc No: C00-148073

**Drinking water or beverage dispenser purifies water by electrolysis to generate active chlorine in container of same size as dispense volume; treated water is chilled and mixed with flavor; generated gas is controllably discharged**

Patent Assignee: SANYO ELECTRIC CO LTD (SAOL )  
Inventor: AMAN H; ENDO N; KAMEYAMA B; MAEZAWA T; MATSUZOE S; TAKANO K; YAMAMOTO H

Number of Countries: 027    Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1024116	A2	20000802	EP 2000101529	A	20000126	200044 B
JP 2000279964	A	20001010	JP 200019366	A	20000127	200056

Search Report from Ginger D. Roberts

JP 2000279965 A 20001010 JP 200019367 A 20000127 200056  
US 6428689 B1 20020806 US 2000491798 A 20000126 200254

Priority Applications (No Type Date): JP 9917938 A 19990127; JP 9917936 A 19990127

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1024116	A2	E	31	C02F-001/461	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT					
LI LT LU LV MC MK NL PT RO SE SI					
JP 2000279964	A		14	C02F-001/46	
JP 2000279965	A		14	C02F-001/46	
US 6428689	B1			C02F-001/46	

Abstract (Basic):

... water in tank. Electrolysis is resumed when time between dispensings exceeds maximum dormancy time. The **apparatus** is a **beverage** dispenser, and includes source of flavoring; mixer to mix purified water and flavoring; and dispensing...

...Purifying water containing chlorine for use in **beverage** dispensing **machine**, **beverage vending machine**, ice maker or drinking water cooler...

...Feed **pipeline** (5...)

... **Covers** (41A,B...)

...Degassing **pipe** (4A)

19/3,K/10 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013037739 \*\*Image available\*\*

WPI Acc No: 2000-209591/200019

XRPX Acc No: N00-156442

Rain water ejection structure in automatic vending machine - has goods extraction mouth cover arranged directly below hole at bottom of change extraction mouth through which rain water is guided from cover and drained out

Patent Assignee: SHIBAURA SEISAKUSHO KK (SHBE )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11149585	A	19990602	JP 97330975	A	19971114	200019 B

Priority Applications (No Type Date): JP 97330975 A 19971114

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11149585	A		5	G07F-009/10	

Rain water ejection structure in automatic vending machine - ...

...has goods extraction mouth cover arranged directly below hole at bottom of change extraction mouth through which rain water is guided from cover and drained out

...Abstract (Basic): NOVELTY - A **cover** (6) for goods extraction mouth (5) is arranged directly below a hole (7) provided on...

...a change extraction mouth (3). Rain water passing through the change



extraction mouth from a **cover** (8) is guided directly to the goods extraction mouth **cover** and ejected out. DETAILED DESCRIPTION - The goods extraction mouth extracts the goods received by goods...

...USE - Is used in automatic **vending machine** .

...

...the rain water penetrating the change extraction mouth is guided to the goods extraction mouth **cover** and ejected out, rust formation inside the machine is prevented. DESCRIPTION OF DRAWING(S) - The figure shows the sectional view of the principal part of automatic **vending machine** . (3) Change extraction mouth; (5) Goods extraction mouth; (6,8) **Covers** ; (7) Hole; (12) Goods receptacle  
...Title Terms: **COVER** ;

19/3,K/11 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013013711 \*\*Image available\*\*

WPI Acc No: 2000-185562/200017

XRPX Acc No: N00-137094

**Cooling apparatus for beverages such as beer, has injection tube and pouring tube for beverage pipe which are raised along side wall and outwardly extended at top of water tank**

Patent Assignee: HOSHIZAKI ELECTRIC CO LTD (HOSH-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000028250	A	20000128	JP 98196165	A	1998071	200017 B

Priority Applications (No Type Date): JP 98196165 A 19980710

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000028250	A	7	F25D-011/00	

**Cooling apparatus for beverages such as beer, has injection tube and pouring tube for beverage pipe which are raised along side wall and outwardly extended at top of water tank**

...Abstract (Basic): NOVELTY - Beverage **pipe** (3c) and evaporation **pipe** (40) passes beverage and coolant, respectively. A **cover** (70) is arranged at top of water tank (20) in which cooling water is stored. The ends (30a) of a beverage **pipe** are connected to an injection tube (30c) and a beverage pouring tube (30e). The beverage...

...DRAWING(S) - The figure shows sectional view of cooling apparatus. (20) Water tank; (30) Beverage **pipe** ; (30a) End; (30c) Beverage injection tube; (30e) Beverage pouring tube; (40) Evaporation **pipe** ; (70) **Cover**

...Title Terms: **PIPE** ;

19/3,K/12 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013002235 \*\*Image available\*\*

WPI Acc No: 2000-174087/200016

XRPX Acc No: N00-129656

**Door support apparatus for automatic vending machine installed in**

various indoor and outdoor areas of market place - has cylindrical cover, formed underneath main hinge and positioned around central periphery of hinge shaft, with internal diameter that is larger than outer diameter of bearing

Patent Assignee: MATSUSHITA REIKI KK (MATJ )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11185128	A	19990709	JP 97357083	A	19971225	200016 B

Priority Applications (No Type Date): JP 97357083 A 19971225

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11185128	A		5	G07F-009/10	

Door support apparatus for automatic vending machine installed in various indoor and outdoor areas of market place...  
...has cylindrical cover, formed underneath main hinge and positioned around central periphery of hinge shaft, with internal diameter...

...Abstract (Basic): NOVELTY - A cylindrical cover (10) is formed underneath the main hinge and positioned around the central periphery of the hinge shaft. The cylindrical cover has an internal diameter that is larger than the outer diameter of the bearing and...

...DETAILED DESCRIPTION - A main hinge (5) is fixed to the main body of an automatic vending machine to openably support a door (2). A hinge shaft (7) extended underneath the main hinge...

...USE - For automatic vending machine installed in various indoor and outdoor areas of marketplace...

...of hinge shaft and gap formed in hole is effectively dammed up through bearing. Effectively drains waste water even if rainwater tends to penetrate gap formed between hinge shaft and hole...

...apparatus. (2) Door; (3) Hole; (5) Main hinge; (7) Hinge shaft; (9) Bearing; (10) Cylindrical cover .

...Title Terms: COVER ;

19/3,K/13 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012822653 \*\*Image available\*\*

WPI Acc No: 1999-628884/199954

XRPX Acc No: N99-465408

Cooling water pond of beverage distribution apparatus for draught beers

Patent Assignee: TOSHIBA MACHINE CO LTD (TOSI )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11278596	A	19991012	JP 9879317	A	19980326	199954 B

Priority Applications (No Type Date): JP 9879317 A 19980326

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11278596	A			B67D-001/08	

**Cooling water pond of beverage distribution apparatus for draught  
beers**

Abstract (Basic):

... Cooling water pond (2) of **beverage distribution apparatus**  
(100) is integrally molded to the exterior **cover** (5) by a resin. A  
**beverage pouring unit** (400) with a pouring cock (21) and a condenser  
tube (20) is connected to the **pipeline opening** (22) of the  
distribution apparatus.

... As the cooling water pond and the exterior **cover** are  
integrally molded, assembling of the **beverage distribution apparatus**  
becomes simple...

...The figure shows the **beverage distribution apparatus** .

...

...Exterior **cover** (5...

... **Pipeline opening** (22...

... **Beverage distribution apparatus** (100...

... **Beverage pouring unit** (400)

**19/3,K/14 (Item 14 from file: 350)**

DIALOG(R)File 350:Derwent WPIX

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012817981 \*\*Image available\*\*

WPI Acc No: 1999-624212/199954

XRFX Acc No: N99-460957

**Money delivery apparatus for automatic vending machine - has money  
accommodation pipe joined with horizontal spindle tightly in dropping  
path mechanism**

Patent Assignee: TANAKA M (TANA-I).

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11272905	A	19991008	JP 9892695	A	19980319	199954 B
JP 3131772	B2	20010205	JP 9892695	A	19980319	200110

Priority Applications (No Type Date): JP 9892695 A 19980319

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11272905	A	8	G07D-001/00	
JP 3131772	B2	6	G07D-001/02	Previous Publ. patent JP 11272905

**Money delivery apparatus for automatic vending machine - ...  
...has money accommodation pipe joined with horizontal spindle tightly in  
dropping path mechanism**

...Abstract (Basic): NOVELTY - A money accommodation **pipe** (10) is joined  
with a horizontal spindle (11) tightly in a dropping path mechanism  
(9). A **cover** plate (12) slides at opening (12a). A pushing rod (16)  
hits the back plate causing...

...USE - For exact drawing of money in automatic coffee **vending machine**

...

...shows the front elevation of money delivery apparatus. (9) Dropping path

mechanism; (10) Money accommodation **pipe** ; (11) Horizontal spindle;  
(12) **Cover** plate; (12a) Opening; (16) Pushing rod  
...Title Terms: **PIPE** ;

**19/3,K/15** (Item 15 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012798045 \*\*Image available\*\*  
WPI Acc No: 1999-604275/199952  
XRAM Acc No: C99-176219  
XRPX Acc No: N99-445554

**Sound insulation structure of steel sheet damper - has artificial sand  
and epoxy resin layer attached to steel sheet and polymer is filled  
between steel or aluminum boards**

Patent Assignee: HIROSE KOGYO KK (HIRO-N)  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11262973	A	19990928	JP 98156585	A	19980427	199952 B

Priority Applications (No Type Date): JP 9839505 A 19980114; JP 97145718 A  
19970428

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11262973	A		8 B32B-015/08	

...Abstract (Basic): USE - For steel sheet damper used in **drain** /gutter  
**covers** , pavements, **vending machines** , washing **machines** , etc...

**19/3,K/16** (Item 16 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012779286 \*\*Image available\*\*  
WPI Acc No: 1999-585512/199950  
XRPX Acc No: N99-432879

**Cleaning apparatus for beverage dispenser - has detachable cleaning  
tank kept on sink in side of housing during cleaning operation**

Patent Assignee: KIRIN BREWERY KK (KIRI ); TOKYO REINETSU KK (TOKR-N)  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11255293	A	19990921	JP 9859648	A	19980311	199950 B

Priority Applications (No Type Date): JP 9859648 A 19980311

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11255293	A		13 B67D-001/07	

**Cleaning apparatus for beverage dispenser...**

...Abstract (Basic): cleaning beverage dispenser from wash tank (3), is  
sucked by a pump (P) through suction **pipe** (P2) and passed through  
outlet **pipe** (P1). The water passes through coupling (2Ac), connector  
(2A) and detachable dispenser head (DH) and...

...D3). DETAILED DESCRIPTION - The wash tank has location (1A) and base (1)  
which is top **cover** of dispenser and is located by side of housing (2)  
of cleaning apparatus...

...2Ac) Coupling; (3) Wash tank; (D3) Dispensing tap; (DH) Dispenser head;  
(P) Pump; (P1) Outlet **pipe** ; (P2) Suction **pipe** .

19/3,K/17 (Item 17 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012774036 \*\*Image available\*\*  
WPI Acc No: 1999-580263/199949  
Related WPI Acc No: 2001-606494  
XRPX Acc No: N99-428433

**Liquid diverting coin handling mechanism for conveying coins to remotely positioned coin receptor for use on vending machines**

Patent Assignee: ANTARES APPLIED RES INC (ANTA-N)

Inventor: DELMENICO P; GEORGE W R

Number of Countries: 033 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9946740	A1	19990916	WO 99US4916	A	19990304	199949 B
AU 9928980	A	19990927	AU 9928980	A	19990304	200006
US 6041908	A	20000328	US 9838436	A	19980311	200023
EP 1072021	A1	20010131	EP 99909873	A	19990304	200108
			WO 99US4916	A	19990304	

Priority Applications (No Type Date): US 9838436 A 19980311

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9946740 A1 E 33 G07F-001/04

Designated States (National): AU BR CA CN CZ ID IL IN JP KR MX NZ PL SG

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE

AU 9928980 A Based on patent WO 9946740

US 6041908 A G07F-001/04

EP 1072021 A1 E G07F-001/04 Based on patent WO 9946740

Designated States (Regional): BE DE ES FR GB IT NL SE

... **diverting coin handling mechanism for conveying coins to remotely positioned coin receptor for use on vending machines**

Abstract (Basic):

... entrance slot downwardly along the back of the housing to a fluid collecting chamber. A **drain** device is connected to the fluid collecting chamber for removing the fluid from the collecting...  
... A perimeter of a **cover** is designed to align with and seal against the perimeter of a base. Tabs (51) and slots (48,50) at the bottom of the **cover** (12) and the base respectively retain the bottoms of these two structures together while the...

...a locked relationship until such time as the latch (52) is pivoted to release the **cover** from the base (18). An INDEPENDENT CLAIM is included for: a liquid diverting coin handling...

...In coin receiving **devices** for use on **vending machines** , which diverts liquid from the coin entrance slot and keeps the liquid from entering the...

...The drawing is a perspective view of the coin handling mechanism with the **cover** of the coin handling mechanism removed exposing the base...

... cover (12)

19/3,K/18 (Item 18 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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012578225 \*\*Image available\*\*  
 WPI Acc No: 1999-384332/199932  
 XRPX Acc No: N99-287775

**Coin chute for use with coin changer in vending machine**

Patent Assignee: BECKER & CO INC L M (BECK-N)

Inventor: GLASER R L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5915519	A	19990629	US 98104660	A	19980625	199932 B

Priority Applications (No Type Date): US 98104660 A 19980625

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 5915519	A	6	G07F-001/04	

**Coin chute for use with coin changer in vending machine**

Abstract (Basic):

... The plates are initially placed parallel to each other. Plate (20) is attached to **face plate** having an entry slot. The ramp is tilted to allow fluid to **drain** off of the ramp through a gap between the ramp and a plate...

...For preventing **vending machines** from objects jammed into coin entry slot...

19/3,K/19 (Item 19 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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012326296 \*\*Image available\*\*  
 WPI Acc No: 1999-132403/199911  
 XRPX Acc No: N99-096375

**Heat transfer method enabling heat transfer or cooling of potable substance, such as beverage - using heat exchangers placed in operative association with barrel for beverage and controlled by thermo-electric block**

Patent Assignee: THERMO ELECTRIC SYSTEMS LTD (THER-N)

Inventor: EFREMKINE V A

Number of Countries: 083 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9904207	A1	19990128	WO 98GB2105	A	19980716	199911 B
AU 9884485	A	19990210	AU 9884485	A	19980716	199925
EP 998653	A1	20000510	EP 98935123	A	19980716	200027
			WO 98GB2105	A	19980716	
US 6490870	B1	20021210	WO 98GB2105	A	19980716	200301
			US 2000463123	A	20000620	

Priority Applications (No Type Date): GB 9715146 A 19970719

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
WO 9904207	A1 E	36	F25D-021/02	

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU  
CZ DE DK EE ES FI GB GE GH HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR  
TT UA UG US UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

AU 9884485 A Based on patent WO 9904207

EP 998653 A1 E F25D-021/02 Based on patent WO 9904207

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI  
LU MC NL PT SE

US 6490870 B1 F25B-021/02 Based on patent WO 9904207

...Abstract (Basic): DESCRIPTION - A cooling apparatus is used for carrying  
out the method, and it comprises a **beverage** container (10), cooling  
**device** such as water, venting device such as fan (26), and power  
supply adapted to power...

...cooling water and vents it to the atmosphere. The beverage container  
comprises barrel and delivery **pipe** which are placed in association  
with the cooling unit located near the end portion of the **pipe**  
adjacent to dispensing point...

...according to present invention for dispensing chilled beverage. (1)  
Beverage container; (10) Barrel with insulating **cover** and insulating  
base; (15) Heat exchanger; (19) Delivery tubing; (20) Dispensing unit;  
(21) Thermo-electric...

19/3,K/20 (Item 20 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012159041 \*\*Image available\*\*

WPI Acc No: 1998-575953/199849

XRPX Acc No: N98-449091

**Automatic vending machine for e.g. tobacco - has straight pipe  
fluorescent lamp positioned vertically in back side of switch support  
body to illuminate goods in goods exhibition shelves attached to back  
board of exhibition portion**

Patent Assignee: JAPAN TOBACCO INC (NISB )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10257946	A	19980929	JP 9766876	A	19970319	199849 B

Priority Applications (No Type Date): JP 9766876 A 19970319

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 10257946	A	6	A47F-007/00	

**Automatic vending machine for e.g. tobacco...**

...has straight pipe fluorescent lamp positioned vertically in back side  
of switch support body to illuminate goods in...

...Abstract (Basic): door (1) in the front surface of a main body. A  
transparent exhibition protector (13) **covers** the front surface.  
Several goods exhibition shelves (21) formed with a transparent  
material are attached...

...An illumination light source which is a straight **pipe** fluorescent lamp  
(16) that illuminates the goods in the shelves is positioned vertically

in the...  
...Title Terms: **PIPE ;**

**19/3,K/21 (Item 21 from file: 350)**  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

011986675 \*\*Image available\*\*  
WPI Acc No: 1998-403585/199835  
XRPX Acc No: N98-314571

**Beverage mixing bowl for automatic vending machine - has steam jet pipe whose air flow quantity is adjusted appropriately, by changing insertion depth of connection projections**

Patent Assignee: FUJI ELECTRIC CO LTD (FJIE )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10162239	A	19980619	JP 96310252	A	19961121	199835 B

Priority Applications (No Type Date): JP 96260417 A 19961001

Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
JP 10162239 A 6 G07F-013/06

**Beverage mixing bowl for automatic vending machine - ...**

**...has steam jet pipe whose air flow quantity is adjusted appropriately, by changing insertion depth of connection projections**

...Abstract (Basic): 7). An insertion opening (8a) and an injection hole (8b) are formed in an upper **cover** (8) of the bowl. The powder raw material is supplied to the bowl from a...

...is passed to a cup (13) that is placed on the stage. A steam jet **pipe** (12) is connected to the upper **cover**. The steam from the bowl is passed to a ventilating fan (11) thorough the steam jet **pipe**. A pair of connection projections (12a,12b) of the steam jet **pipe** are inserted in the upper **cover** and the quantity of exhaust air is adjusted to the insertion depth of projection...

...Title Terms: **PIPE ;**

**19/3,K/22 (Item 22 from file: 350)**  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

011926425  
WPI Acc No: 1998-343335/199830  
XRAM Acc No: C98-105896

**Negative catalyst for urethane preparation - comprising quaternary ammonium salt having hydroxyl group, and counter anion of halogen ion**

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 10130355	A	19980519	JP 96291585	A	19961101	199830 B

Priority Applications (No Type Date): JP 96291585 A 19961101

Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
JP 10130355 A 6 C08G-018/18



...Abstract (Basic): A foam obtained is used for refrigerators, freezer rooms, bath tubs, freezer cars, railway containers, **pipe** insulation covers , show cases, **vending machines** , warm water **equipment** , etc  
...

19/3,K/23 (Item 23 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011679631 \*\*Image available\*\*

WPI Acc No: 1998-096540/199809

XRPX Acc No: N98-077442

**Warm/cooling apparatus for beverages such as coffee, tea can used in motor vehicle - has cylindrical shaped heat leading pipe covered by heat insulating material, provided in main body, which supports stored beverage cans**

Patent Assignee: SKK KK (SKKS-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9324972	A	19971216	JP 96144391	A	19960606	199809 B

Priority Applications (No Type Date): JP 96144391 A 19960606

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 9324972	A	7	F25D-011/00	

**Warm/cooling apparatus for beverages such as coffee, tea can used in motor vehicle...**

**...has cylindrical shaped heat leading pipe covered by heat insulating material, provided in main body, which supports stored beverage cans**

...Abstract (Basic): are stored inside the main body, which are supported by a cylindrical shaped heat leading **pipe** (13). The **pipe** is covered with a heat insulating material (16...

...Title Terms: **PIPE** ;

19/3,K/24 (Item 24 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

011679561 \*\*Image available\*\*

WPI Acc No: 1998-096470/199809

XRPX Acc No: N98-077372

**Liquefied nitrogen gas packing apparatus e.g. for beverage cans - has hole formed in vertical pipe member of needle valve at level higher than liquid nitrogen level in tank**

Patent Assignee: MITSUBISHI MATERIALS CORP (MITV )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9324899	A	19971216	JP 96143317	A	19960605	199809 B

Priority Applications (No Type Date): JP 96143317 A 19960605

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 9324899	A	5	F17C-009/00	

**Liquefied nitrogen gas packing apparatus e.g. for beverage cans...**

...has hole formed in vertical pipe member of needle valve at level higher than liquid nitrogen level in tank

...Abstract (Basic): consists of a tank (10) to which the liquefied nitrogen gas is supplied. An inlet pipe (13) with a pipe cover (14) is installed for the supply of the gas. A needle valve (3) is connected...

...4) with a valve seat member (9) in between. A hole is formed in vertical pipe member or needle valve at a level which is higher than liquefied nitrogen level in...

...Title Terms: PIPE ;

19/3,K/25 (Item 25 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011462489 \*\*Image available\*\*

WPI Acc No: 1997-440396/199741

XRPX Acc No: N97-366303

Cooling system for automatic vending machine - uses claw installed at surface of each side of cover , to fix cover to support stand by clamping claw to projection formed at each side of support stand

Patent Assignee: MATSUSHITA REIKI KK (MATJ )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9198564	A	19970731	JP 968900	A	19960123	199741 B
JP 3329645	B2	20020930	JP 968900	A	19960123	200271

Priority Applications (No Type Date): JP 968900 A 19960123

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9198564	A		5	G07F-009/10	
JP 3329645	B2		5	G07F-009/10	Previous Publ. patent JP 9198564

Cooling system for automatic vending machine - ...  
...uses claw installed at surface of each side of cover , to fix cover to support stand by clamping claw to projection formed at each side of support stand

...Abstract (Basic): The system includes a branch pipe (3) and solenoid valves (4). At the rear of the solenoid valves, a support stand...

...At the upper side of the support stand, a cover (6) is connected through a hinge portion (7). At the surface of each side of the cover , a claw (6a) is installed...

...ADVANTAGE - Prevents cover from oscillating as automatic vending machine is transported. Prevents solenoid valve from deteriorating since solenoid valve is covered. Does not obstruct...

...since amount of coolants supplied is prevented from varying because both solenoid valve and branch pipe are fixed perpendicularly...

...Title Terms: COVER ;

19/3,K/26 (Item 26 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011061903 \*\*Image available\*\*

WPI Acc No: 1997-039828/199704

XRPX Acc No: N97-033314

**Goods extraction appts of vending machine - has drain which is placed at bottom part of inner door thus covering its lower part fully**

Patent Assignee: MATSUSHITA REIKI KK (MATJ )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8297775	A	19961112	JP 95102082	A	19950426	199704 B

Priority Applications (No Type Date): JP 95102082 A 19950426

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8297775	A	5	G07F-009/10	

**Goods extraction appts of vending machine - ...**

**...has drain which is placed at bottom part of inner door thus covering its lower part fully**

...Abstract (Basic): The appts has an inner box (2) provided inside the main body (1) of the **vending machine** . The opening of the main body is covered with main door (8). A shelf (3...

...goods receptacle part (15) has a rear wall (17), a bottom board (11) and a **drainage** guide board (16). A **drain** (18) **covers** the entire lower part of the inner door...

...Title Terms: **DRAIN** ;

19/3,K/27 (Item 27 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010774552 \*\*Image available\*\*

WPI Acc No: 1996-271505/199628

XRPX Acc No: N96-228214

**Large-scale beverage extraction equipment for e.g. tea and coffee - has clean water nozzle set on upper part of extraction tank at driving position when putting raw material on each extraction tank**

Patent Assignee: MITSUBISHI JUKOGYO KK (MITO )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8112205	A	19960507	JP 94251723	A	19941018	199628 B

Priority Applications (No Type Date): JP 94251723 A 19941018

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8112205	A	7	A47J-031/00	

**Large-scale beverage extraction equipment for e.g. tea and coffee...**

...Abstract (Basic): provided at equal intervals on a trestle. Each extraction tank is provided with a discharge **pipe** and an extracted material set on a bottom **cover** . A hot water nozzle is inserted to the opening of each extraction tank supplying hot...

...clean water nozzle is provided on the other side of the hot water nozzle. The **cover** is opened by an opening and shutting mechanism to exhaust dregs to the lower part...

19/3,K/28 (Item 28 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2003 Thomson Derwent. All rts. reserv.

010729947 \*\*Image available\*\*  
 WPI Acc No: 1996-226902/199623  
 XRPX Acc No: N96-190669

**Locking device for vending machine - inserts suspended fitting into U-shaped slot of lock mainpart and pushes pipe through hole into centre, for locking outer door**

Patent Assignee: FUJI ELECTRIC CO LTD (FJIE )  
 Number of Countries: 001 Number of Patents: 002  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8087663	A	19960402	JP 94224471	A	19940920	199623 B
JP 3265850	B2	20020318	JP 94224471	A	19940920	200222

Priority Applications (No Type Date): JP 94224471 A 19940920

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8087663	A		4	G07F-009/10	
JP 3265850	B2		4	G07F-009/10	Previous Publ. patent JP 8087663

**Locking device for vending machine - ...**  
**...inserts suspended fitting into U-shaped slot of lock mainpart and pushes pipe through hole into centre, for locking outer door**

...Abstract (Basic): the side of a main part case (1). A suspending fitting (7) attached to a **cover** (72) is inserted into a U-shaped slot (41b) of the lock main part. A **pipe** (42) is pushed through a hole (7a) in the centre of the suspending fitting, which...

...into the slot of the lock main part, for locking the outer door of the **vending machine** .

...Title Terms: **PIPE** ;

19/3,K/29 (Item 29 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2003 Thomson Derwent. All rts. reserv.

010491171  
 WPI Acc No: 1995-392572/199550  
 XRAM Acc No: C95-169088

**As-moulded article of mfr. prodn. useful for vehicle component - by injecting into mould contg. liq. resin-modifying auxiliary material concentrated in the surface of the article, for enhanced colour**

Patent Assignee: METTON AMERICA INC (METT-N)  
 Inventor: FITZGIBBON D R  
 Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5464585	A	19951107	US 94177103	A	19940103	199550 B

Priority Applications (No Type Date): US 94177103 A 19940103

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5464585	A		16	B29C-045/14	

...Abstract (Basic): mouldings, medical equipment; appliances such washing machines and fridges, fixtures. such as sinks, showers, toilets, **vending machines** ; home and industrial agricultural equipment; railroad equipment; aerospace components; storage and shipping vessels, containers, trays, pallets and bins; chlorine cell **covers** ; **pipe** and tubing; packing for distn. towers; gaskets; solar collectors; furniture; toys; and food vessels such...

19/3,K/30 (Item 30 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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009526849 \*\*Image available\*\*  
WPI Acc No: 1993-220389/199328  
XRPX Acc No: N93-168879

**Automatic beverage dispensing machine - has grid with openings for draining away spillage and a recess for beakers**  
Patent Assignee: BOSCH SIEMENS HAUSGERAETE GMBH (BOSC ); COCA-COLA CO (COKE ); BOSCH-SIEMENS HAUSGERAETE GMBH (BOSC )  
Inventor: BOHNET A; ZONSIUS G  
Number of Countries: 001 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 4142331	A1	19930708	DE 4142331	A	19911220	199328 B
DE 4142331	C2	19950831	DE 4142331	A	19911220	199539

Priority Applications (No Type Date): DE 4142331 A 19911220  
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 4142331	A1	6	B67D-005/08		
DE 4142331	C2	6	B67D-001/06		

**Automatic beverage dispensing machine - ...**  
**...has grid with openings for draining away spillage and a recess for beakers**

...Abstract (Basic): The automatic **beverage dispensing machine** has a **cover** (1) in the form of a grid. It has openings to allow any beverage overflow to **drain** away into a receptacle mounted below the grid...

...USE/ADVANTAGE - Automatic **beverage dispensing machine** in which any **beverage** spillage is **drained** away...

...Abstract (Equivalent): A drinks machine filling area grating has through holes on its **cover** surface to lie open below facing an overflow bowl. A bottom surface (11) fitted to the grating (1) and depressed in relation to the **cover** surface (5) is enclosed by a side wall (27) and has a cup etc. reception...

...gearing is fixed releasably to the machine by a latching lug (29) which extends off **cover** and/or reception area (3) to work with a socket etc designed into the overflow...

...designed in plastics all in one piece. Additional components include rounded grating corners (7, 7'), **cover** wall (19) and bottom cross ribs (23) and lengthways ribs (21) to stiffen the grating...

...Title Terms: **DRAIN** ;

19/3,K/31 (Item 31 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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007939666

WPI Acc No: 1989-204778/198928

XRAM Acc No: C89-091171

**Starch hydrolysis equipment - has mixing chamber for starch and acid and neutraliser where sodium carbonate is added, plus separator for final soln. from vapours**

Patent Assignee: MOSC FOOD IND TECHN (MOFO-R)

Inventor: KUZIN V A; LAZAREV V D; SIDORENKO A N

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 1449590	A	19890107	SU 4193417	A	19870212	198928 B

Priority Applications (No Type Date): SU 4193417 A 19870212

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
SU 1449590	A	4		

...Abstract (Basic): devices for acid and Na<sub>2</sub>CO<sub>3</sub> solns., hydrolysis appts. and neutraliser contg. vertical cylindrical body with **pipes** to admit hydrolysate and Na<sub>2</sub>CO<sub>3</sub> solns., and remove liquor-vapour. Neutraliser has device to separate liq. drops made as vessel with holes in side-surface linked to vapour-removal **pipe**. Curved blades with top and bottom **covers** forming guiding channels are fastened outside vessel. Inside **pipe** to remove vapour is manifold with holes to remove liquid drops; against holes are guiding...

...with measured amount of acid. As the starch starts to acidify it goes along a **pipe** and Na<sub>2</sub>CO<sub>3</sub> soln. is added from a second measuring **device**. Acid mixt. and **soda** are fed tangentially into neutraliser, and are intensively mixed because of the high excess pressure...

19/3,K/32 (Item 32 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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007751602 \*\*Image available\*\*

WPI Acc No: 1989-016714/198903

XRPX Acc No: N89-012913

**Electric tea or coffee maker - has water heater with thick-film resistance heating path**

Patent Assignee: KRUPS R STIFT & CO (KRUP-N)

Inventor: HOFFMANN E

Number of Countries: 009 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 299146	A	19890118	EP 88105447	A	19880406	198903 B
DE 3723016	A	19890119	DE 3723016	A	19870711	198904
US 4888465	A	19891219	US 88207762	A	19880616	199008

Priority Applications (No Type Date): DE 3723016 A 19870711

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 299146	A G	9		

Designated States (Regional): CH FR GB IT LI NL SE

US 4888465	A	9
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...Abstract (Basic): a fresh water container lead to a through-flow water heater (22) with a riser **pipe** for feeding the hot water to a filter unit supported above the reception jug. The...

...Abstract (Equivalent): supply of water and supports a holder for tea

leaves or comminuted coffee beans. A **pipe** connects the outlet of the container with the holder. A portion of the **pipe** is constituted by an electric heater which has one or more thick film conductors in...

...made of a metallic material, such as aluminum, and then supports one or more insulating **covers** at least one of which carries a thick film conductor. The conductor or conductors are...

...of a paste which is caused to dry on the insulating carrier or on the **cover** or **covers**.

...

...USE - Hot **beverage machine** with thick film electric heater. (9pp)

19/3,K/33 (Item 33 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

007352796

WPI Acc No: 1987-349802/198750

XRPX Acc No: N87-262242

**Tapping mechanism for dairy prods. fruit juices etc. - has electric plug connectors between electric control and stirrer and pump**

Patent Assignee: MILCHQUELLE-ZAPFTEC (MILC-N)

Inventor: STADLER A

Number of Countries: 011 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 249065	A	19871216	EP 87107240	A	19870519	198750 B
DE 3619940	A	19871223	DE 3619940	A	19860613	198801
DE 3619940	C	19880519				198820
EP 249065	B	19890920				198938
DE 3760579	G	19891026				198944

Priority Applications (No Type Date): DE 3619940 A 19860613

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 249065	A	G	18		
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Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

DE 3619940	A		13		
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EP 249065	B	E			
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Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE

...Abstract (Basic): The milk is delivered through the **pipe** (56) which is fitted with a plug in coupling (76). The container (10) is fitted with a **cover**, which when removed separates the coupling (76) and plugs and sockets (60,78) and when the **cover** is replaced these couplings (76) and electrical connections are re-connected...

...USE/ADVANTAGE - Drink **vending machines**. Easy to clean. Protected against damage during transport.

19/3,K/34 (Item 34 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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004527272

WPI Acc No: 1986-030616/198605

XRPX Acc No: N86-022085

Beverage **making device e.g. for automatically brewing coffee** - has

**running thermostat for activating heating element in response to sensed temp. changes within covered container**

Patent Assignee: BLOOMFIELD IND INC (BLOO-N)

Inventor: ROBERTS M F

Number of Countries: 004 Number of Patents: 013

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2162052	A	19860129	GB 8513198	A	19850524	198605 B
AU 8544613	A	19860130				198612
US 4602145	A	19860722	US 84633417	A	19840723	198632
US 4603621	A	19860805	US 85778909	A	19850923	198634
US 4641011	A	19870203	US 85780257	A	19850923	198707
US 4641012	A	19870203	US 85778908	A	19850923	198707
US 4650158	A	19870317	US 85778910	A	19850923	198713
GB 2162052	B	19880602				198822
CA 1241210	A	19880830				198839
CA 1254050	A	19890516				198924
CA 1254051	A	19890516				198924
CA 1254052	A	19890516				198924
CA 1254053	A	19890516				198924

Priority Applications (No Type Date): US 84633417 A 19840723; US 85778908 A 19850923; US 85778909 A 19850923; US 85778910 A 19850923

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2162052	A		17		

Beverage making device e.g. for automatically brewing coffee...

- ...Abstract (Basic): which evenly distributes hot water in a random dripping flow through the disk. A bottom **drain** system (133) is non-corrodible and thread disengageable from the container (27...
- ...ADVANTAGE - Detects excessive temps. long before **cover** becomes overheated. (17pp Dwg'No.3/15)
- ...Abstract (Equivalent): A **beverage** -making **device** of the type having a hot water container arranged with a removable **cover** means thereover and being in communication with inlet valve means associating with a source of...
- ...receiving water from said source of cold water upstream of said inlet valve means, inlet **pipe** means fluidly communicating therewith for the conveyance of said tapped-off water, water coil means...
- ...immersed in hot water in said container and being in fluid communication with said inlet **pipe** means, whereby said tapped-off water is heated therein, said hot water system further including outlet **pipe** means fluidly communicating with said water coil means to convey hot water therefrom, water faucet means arranged with said outlet **pipe** means to receive hot water therefrom, and pressure relief means whereby to relieve pressure in...
- ...Abstract (Equivalent): Outlet **pipes** convey heated water from the coil to an outlet faucet projecting exteriorly of the device...
- ...the mounting collar to tightly seal a flexible gasket around the spray disc. A bottom **drain** system is provided for emptying the hot water container which is non-corrodible and thread...
- ...The hot water container has a sealed removable **cover** and an electric immersion coil-type heating element controlled by a running thermostat and a...



...volume of cold water admitted into the container through an inlet tube extending through the **cover** and controlled by a timed inlet valve. The hot water is discharged from the container at a brewing station through a siphon tube also extending through the **cover** .  
...  
...The hot water storing container of a **beverage** making **device** is provided with a high wattage electric immersion heating element having a number of coil...  
...Outlet **pipes** convey heated water from the coil to an outlet faucet projecting exteriorly of the device...  
...A hot water container is provided with a removable **cover** sealed to it and has arranged in it an electric immersion heating element controlled by...  
...water. The latter is admitted into the container through an inlet tube extending through the **cover** and controlled by a timed inlet valve, the hot water being discharged from the container at a brewing station through a syphon tube also extending through the **cover** . A tap-off hot water system for providing hot water continuously at a temperature the  
...  
...receiving tube extending upwardly from the bottom of the coil to a fitting on the **cover** connected to the source of water upstream of the inlet valve...  
...tube extends upwardly from the top of the coil to a second fitting on the **cover** connected to a discharge **pipe** communicating with a manually operable water faucet at the exterior of the **beverage** -making **device** for selectively supplying hot water for making soup, tea, hot cocoa, etc. The hot water  
...Title Terms: **COVER** ;

19/3,K/35 (Item 35 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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004342214

WPI Acc No: 1985-169092/198528

XRAM Acc No: C85-074001

**Appts. for ozone sterilisation of water - with sheet contg. ozone degradation catalyst floating on water in tank**

Patent Assignee: FUJI ELECTROCHEMICAL CO LTD (FJIC )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 60099387	A	19850603	JP 83207096	A	19831104	198528 B

Priority Applications (No Type Date): JP 83207096 A 19831104

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 60099387	A		3		

...Abstract (Basic): is dissolved and absorbed in the water. Sheet carrying ozone degradation catalyst is floated to **cover** the surface of the water in the tank...

...USE/ADVANTAGE - Appts. is incorporated in e.g. a cup-type drink **vending machine** to sterilise the drinking water and the water feed **pipe**

line. Excess ozone is degraded by the catalyst forming oxygen when it reaches the water...

19/3,K/36 (Item 36 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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001508524

WPI Acc No: 1976-H1452X/197632

**Float dispenser for beverage vending machines - provides accurate check on presence of liquid by interrogation level-gauge with herkon float**

Patent Assignee: KIEV COMML ENG BUR (KICO-R)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
SU 489955	A	19760128				197632 B

Priority Applications (No Type Date): SU 1939253 A 19730706

**Float dispenser for beverage vending machines -**

...Abstract (Basic): Described is a more effective device for dispensing cool drinks from **vending machines**. By indicating when the tank is empty, the not as hitherto the absence of liquid from an overflow **pipe**, the accuracy of the check is improved because joints and possible presence of films and...

...contains permanent magnet (14), one signal receiver is the magnetically controlled (herkon) contact (15) under **cover** (16), and another is herkon contact (17) connected to the signal lamp (20). As the...

19/3,K/37 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

07383169 \*\*Image available\*\*

CUP TYPE AUTOMATIC **VENDING MACHINE**

PUB. NO.: 2002-251669 [JP 2002251669 A]  
PUBLISHED: September 06, 2002 (20020906)  
INVENTOR(s): ONO AKISHI  
APPLICANT(s): FUJI ELECTRIC CO LTD  
APPL. NO.: 2001-048624 [JP 20011048624]  
FILED: February 23, 2001 (20010223)

CUP TYPE AUTOMATIC **VENDING MACHINE**

#### ABSTRACT

...receiving restrictions in layout or increasing power consumption.

SOLUTION: Heat of a regular coffee supply **pipe** 9 extended from a coffee brewer 5 for the regular coffee and arranged between the...

... type beverage or a raw material chute 4. To be specific, the regular coffee supply **pipe** is arranged along an inner side of a heater **cover** 10 laid with the heat retaining heater. By this, the regular coffee extracted at the...

19/3,K/38 (Item 2 from file: 347)

DIALOG(R)File 347:JAPIO

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07181571 \*\*Image available\*\*

**DRAIN DEVICE FOR AUTOMATIC VENDING MACHINE**

PUB. NO.: 2002-049962 [JP 2002049962 A]  
PUBLISHED: February 15, 2002 (20020215)  
INVENTOR(s): KANZAKI FUTOSHI  
APPLICANT(s): KUBOTA CORP  
APPL. NO.: 2000-236318 [JP 2000236318]  
FILED: August 04, 2000 (20000804)

**DRAIN DEVICE FOR AUTOMATIC VENDING MACHINE**

**ABSTRACT**

PROBLEM TO BE SOLVED: To provide a **drain device** for an automatic **vending machine** which can disconnect the inside of an inner box from outside air without regard to the presence and absence of **drain water**.

SOLUTION: The device is provided with a rotary shaft part 49 supported rotatably in a horizontal posture so as to surround the lower part of a **drain** 16 formed integrally with the **drain nozzle** 5 part of a **drain device** 20 from an outer periphery, an opening/closing **cover** 47 extended toward one lateral side from the part 49 to be abutted directly on the **drain** 16 for opening and closing the **drain** 16 and an opening/closing body 50 consisting of a weight part 53 extended toward the other lateral side from the part 49. Since the **drain** 16 can be closed directly, entering of outside air can be disconnected completely between the...

... side of a casing outside 12 without regard to the presence and absence of the **drain water**. Thus, heat insulation performance and thermal efficiency are improved to successively reduce power consumption...

19/3,K/39 (Item 3 from file: 347)

DIALOG(R)File 347:JAPIO

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07116978 \*\*Image available\*\*

**COOLING/HEATING UNIT FOR AUTOMATIC VENDING MACHINE**

PUB. NO.: 2001-344646 [JP 2001344646 A]  
PUBLISHED: December 14, 2001 (20011214)  
INVENTOR(s): SOEJIMA HIDEYUKI  
NIWA MASAO  
APPLICANT(s): FUJI ELECTRIC CO LTD  
APPL. NO.: 2000-162198 [JP 2000162198]  
FILED: May 31, 2000 (20000531)

**COOLING/HEATING UNIT FOR AUTOMATIC VENDING MACHINE**

**ABSTRACT**

... lb connected with a rear duct 13 inside of the casing and where a coolant **pipe** 16 and a harness 18 are connected between the condensing unit 8 and the electrical box 14 of a freezer, a wiring **cover** 20 is laid in front of the unit to **cover** the harness and the coolant **pipe** is drawn around and **pipelined** over it. Furthermore, the air duct and the cooler are integrally assembled on a pedestal...

...the front end of the pedestal is pulled out to the front of the wiring **cover** and fastened to a bottom wall with a screw to fix the cooling/heating unit...

19/3,K/40 (Item 4 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06810865 \*\*Image available\*\*  
CHLORINE GENERATOR

PUB. NO.: 2001-038357 [JP 2001038357 A]  
PUBLISHED: February 13, 2001 (20010213)  
INVENTOR(s): WATANABE KAZUSHIGE  
SATO MOTOHARU  
SUGA TAKAAKI  
APPLICANT(s): SANDEN CORP  
APPL. NO.: 11-221691 [JP 99221691]  
FILED: August 04, 1999 (19990804)

ABSTRACT

...corresponding to the measured electrolyzed quantity.

SOLUTION: This chlorine generator 2 is used in a **beverage** supply device for supplying water of effective chlorine concentration to a **beverage vending machine** 1 which prepares a beverage such as juice and coffee according to an offering signal. The generator 2 is constituted so that an electrode unit 25 supported by a **cover** body 23 is disposed in a water storage vessel 21 where tap water is supplied through a supply **pipe** 20. The raw water flowing into a space 27 outside the outside electrode 25b through...

19/3,K/41 (Item 5 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06787041 \*\*Image available\*\*  
FIXING STRUCTURE OF AUTOMATIC **VENDING MACHINE** TO ROAD SURFACE

PUB. NO.: 2001-014522 [JP 2001014522 A]  
PUBLISHED: January 19, 2001 (20010119)  
INVENTOR(s): MATOBA TAKEO  
APPLICANT(s): REKKUSU TECHNO SYSTEMS KK  
APPL. NO.: 11-184974 [JP 99184974]  
FILED: June 30, 1999 (19990630)

FIXING STRUCTURE OF AUTOMATIC **VENDING MACHINE** TO ROAD SURFACE

ABSTRACT

PROBLEM TO BE SOLVED: To safely fix an automatic **vending machine** even on a road surface on which a large step or a slope exists by...

...lower plates 40 and 41 with two vertical plates 42 and 43 and has a **pipe** shape, and its height is set by being corresponded to the step difference between road...

...side with an anchor 5, and a fixture 3 is bolted down to the upper **face** of the **plate** 40 of the block 4 firmly by using a bolt BT and a plate washer...

19/3,K/42 (Item 6 from file: 347)  
DIALOG(R)File 347:JAPIO

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06690812      \*\*Image available\*\*

**DRAINING    DEVICE    FOR AUTOMATIC    VENDING    MACHINE**

PUB. NO.:        2000-276642    [JP 2000276642    A]  
PUBLISHED:       October 06, 2000 (20001006)  
INVENTOR(s):     TANAI TAKEHITO  
                  YAJIMA SHUICHI  
APPLICANT(s):    SANYO ELECTRIC CO LTD  
APPL. NO.:       11-078320    [JP 9978320]  
FILED:           March 23, 1999 (19990323)

**DRAINING    DEVICE    FOR AUTOMATIC    VENDING    MACHINE**

**ABSTRACT**

PROBLEM TO BE SOLVED: To prevent splashing from a drip pan even when **drain** water flows backward when inverse pressure is applied by providing a splash-preventing wall at a position where **drain** water erupting in a reverse direction from a **drain** exit collides to return into the drip pan.

SOLUTION: In a funnel-like member, a second tray 31 **covers** nearly 2/3 of the upper surface opening of a first tray 30 and is...

... when a train enters a tunnel and a rapid inverse pressure is applied into a **drain** exit 27 from a hose 28 to make drip in it and **drain** water in the tray 21 flow backward, they collide with the wall 24 of the...

... line. That is, the wall 24 functions as the splash-preventing wall of back flow **drain** water to prevent the splash of **drain** water to the outside of the tray 21.

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**19/3,K/43      (Item 7 from file: 347)**

DIALOG(R)File 347:JAPIO

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06397469      \*\*Image available\*\*

**AUTOMATIC    BEVERAGE    VENDING    MACHINE**

PUB. NO.:        11-339121    [JP 11339121    A]  
PUBLISHED:       December 10, 1999 (19991210)  
INVENTOR(s):     TAMARU TAKESHI  
                  TAKANO KAZUKIYO  
                  WAKABAYASHI NORIMITSU  
APPLICANT(s):    KURARAY CHEM CORP  
                  SANYO DENSHI KOGYO KK  
                  SHOWA TANSAN CO LTD  
APPL. NO.:       10-158487    [JP 98158487]  
FILED:           May 21, 1998 (19980521)

**AUTOMATIC    BEVERAGE    VENDING    MACHINE**

**ABSTRACT**

... absorption by keeping the inside of a canister for ingredient bulk storage of an automatic **beverage vending machine** in the atmosphere of nitrogen gas which is inactive and also does not include moisture.

SOLUTION: A **pipe** of nitrogen gas which is supplied from nitrogen gas generating device 12 is connected to each ingredient canister. Because the open air (air) enters at the same time when the **cover** of an ingredient canister 16 is opened and ingredient powders of cocoa are replenished, a

sensor attached to the canister 16 detects that the **cover** is closed after the ingredients are replenished, a solenoid valve 54 is opened for a...

... amount of nitrogen gas in order to compensate the leakage of nitrogen gas from a **cover** part or nitrogen gas that leaks out of a fixed quantity discharging mechanism part and...

19/3,K/44 (Item 8 from file: 347)

DIALOG(R)File 347:JAPIO

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06208027 \*\*Image available\*\*

AUTOMATIC **VENDING MACHINE**

PUB. NO.: 11-149585 [JP 11149585 A]

PUBLISHED: June 02, 1999 (19990602)

INVENTOR(s): GODA YUICHI

APPLICANT(s): SHIBAURA MECHATRONICS CORP

APPL. NO.: 09-330975 [JP 97330975]

FILED: November 14, 1997 (19971114)

AUTOMATIC **VENDING MACHINE**

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a **vending machine** where coming-in rainwater is instantaneously discharged and an inside does not easily rust by...

... and guiding rainwater to the outside of the machine with a commodity take-out port **cover** directly or with a rain **pipe** .

SOLUTION: The change take-out port 3 is fitted to a door 2. A change take-out port **cover** 8 is provided on the front surface of the change take-out port 3 so...

...lower part of the change take-out port 3 and the commodity take-out port **cover** 6 is attached on the front surface of the commodity take-out port 5 so...

... the commodity take-out port 5. Rainwater coming-in along the change take-out port **cover** 8 drips from the hole 7 provided in the bottom part of the change take...

... port 3. Then, it falls on the front surface of the commodity take-out port **cover** 6 so as to be discharged to the outside of the machine along the commodity take-out port **cover** 6.

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19/3,K/45 (Item 9 from file: 347)

DIALOG(R)File 347:JAPIO

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06132010 \*\*Image available\*\*

ILLUMINATOR FOR AUTOMATIC **VENDING MACHINE**

PUB. NO.: 11-073548 [JP 11073548 A]

PUBLISHED: March 16, 1999 (19990316)

INVENTOR(s): YAJIMA SHUICHI

APPLICANT(s): SANYO ELECTRIC CO LTD

APPL. NO.: 09-234165 [JP 97234165]  
FILED: August 29, 1997 (19970829)

ILLUMINATOR FOR AUTOMATIC VENDING MACHINE

ABSTRACT

... TO BE SOLVED: To prevent an insect from gathering around an illuminator of an automatic vending machine by changing a color of the illuminator only during a period when there are many insects.

SOLUTION: An outer periphery of a straight pipe shape fluorescent lamp 2 for illuminating a lighting plate of an automatic vending machine is engaged with and covered by a cylindrical shape cover 1. The cylindrical shape cover 1 is divided in a light transmissivity coloring part 1a of yellow or orange lights...

... illuminates a normal color with the non-coloring part 1b front of the cylindrical shape cover 1, but in a period as in the summer or the like where there are many insects, an illumination is performed with the coloring part 1a of the cylindrical shape cover 1 front and with a yellow or an orange colors that insects cannot see.

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19/3,K/46 (Item 10 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06019034 \*\*Image available\*\*  
DRAINING DEVICE FOR AUTOMATIC VENDING MACHINE

PUB. NO.: 10-302134 [JP 10302134 A]  
PUBLISHED: November 13, 1998 (19981113)  
INVENTOR(s): MASUDA SHINJI  
APPLICANT(s): FUJI ELECTRIC CO LTD [000523] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 09-107699 [JP 97107699]  
FILED: April 24, 1997 (19970424)

DRAINING DEVICE FOR AUTOMATIC VENDING MACHINE  
...JAPIO KEYWORD:Automatic Vending Machines )

ABSTRACT

PROBLEM TO BE SOLVED: To isolate a store box of an automatic vending machine from the outside air regardless of the presence or absence of the drain water by preparing a U-shaped pipe under a draining port to isolate the inside air of the store box from the outside air...

...packing 4 is put on the bottom plate of a cylinder for a U-shaped pipe 10. The pipe 10 is put upward into a deformed hole of the bottom plate 3 of an outer case until a cylindrical upper pawl 10c protrudes above the plate 3. Then the pipe 10 is turned right or left to hold the plate 3 between the pawl 10c...

... of the outside air. The opening part of a case- shaped swelling part of the pipe 10 is extended up to a position where the upper faces of both walls of the opening part touch the lower face of the plate 3. Thus, the outside air is shut out by both walls of the opening part...

... the cuts of both walls. In such a constitution, the store box of an automatic vending machine can be isolated from the outside air

regardless of the presence or absence of the **drain** water.

**19/3,K/47** (Item 11 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05978054 \*\*Image available\*\*  
DOOR **DRAIN** STRUCTURE FOR AUTOMATIC **VENDING** **MACHINE**

PUB. NO.: 10-261154 [JP 10261154 A]  
PUBLISHED: September 29, 1998 (19980929)  
INVENTOR(s): MATSUMOTO AKIRA  
APPLICANT(s): SANDEN CORP [000184] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 09-068770 [JP 9768770]  
FILED: March 21, 1997 (19970321)

DOOR **DRAIN** STRUCTURE FOR AUTOMATIC **VENDING** **MACHINE**  
...JAPIO KEYWORD:Automatic **Vending** **Machines** )

ABSTRACT

PROBLEM TO BE SOLVED: To **drain** water made to reach an end part on the opposite side of the hinge of...

... product housing container by forming the water discharge path of the door of an automatic **vending** **machine** for forming a vertically extended closed space entirely passed through from the upper end to...

...SOLUTION: The interval of a **cover** 12a and the side end face of the door main body 1 on the opposite...

...of the side end face of the door main body 1 does not reach the **cover** 12a, an opening is not formed on the **cover** 12a. Thus, a columnar space 14a formed between the side end face of the door main body 1 and the **cover** 12a is provided with a closed horizontal cross section similarly to the columnar space 4b formed between the **cover** 2b and the side end face of the door main body 1 on the side...

...face of the door main body 1 is led to the columnar space 14a and **drained** from the lower end onto the ground surface.

**19/3,K/48** (Item 12 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05898698 \*\*Image available\*\*  
COOLING **DEVICE** FOR **BEVERAGE**

PUB. NO.: 10-181798 [JP 10181798 A]  
PUBLISHED: July 07, 1998 (19980707)  
INVENTOR(s): YOSHIMURA HARUHIRO  
JINNO TAKEO  
URATA SHINICHI  
APPLICANT(s): ZOJIRUSHI CORP [326494] (A Japanese Company or Corporation),  
JP (Japan)  
APPL. NO.: 08-346983 [JP 96346983]  
FILED: December 26, 1996 (19961226)

COOLING **DEVICE** FOR **BEVERAGE**

ABSTRACT

March 13, 2003 30 11:12



...To increase the heat-exchanging efficiency and guarantee stable cooling, by spirally erecting heat-exchanging **pipes** connected to the beverage supply side at one end and connected to the beverage discharge...

...SOLUTION: Heat-exchanging **pipes** 3 contained in a container body 1 rise spirally from the part along the bottom...

... it goes up at the upper part thereof. The upper end of the heat-exchanging **pipes** 3 is connected to the discharge side joint 5 and the lower end thereof is...

... joint 6 and it is made connectable to a beverage tank. When using the cooling **device** , appropriately cold **beverage** which has been cooled by broken ice 22 fed in the inside after the **cover** 2 of the container body 1 has been opened, while the beverage passes through the heat-exchanging **pipes** 3, is poured from the cock 7 into a glass.

19/3,K/49 (Item 13 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05888962 \*\*Image available\*\*  
RAW MATERIAL MIXER FOR AUTOMATIC **VENDING MACHINE**

PUB. NO.: 10-172062 [JP 10172062 A]  
PUBLISHED: June 26, 1998 (19980626)  
INVENTOR(s): NISHIO KOTARO  
APPLICANT(s): KUBOTA CORP [000105] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 08-332594 [JP 96332594]  
FILED: December 13, 1996 (19961213)

RAW MATERIAL MIXER FOR AUTOMATIC **VENDING MACHINE**  
...JAPIO KEYWORD:Automatic **Vending Machines** )

ABSTRACT

PROBLEM TO BE SOLVED: To provide a raw material mixer for an automatic **vending machine** which always keeps the inside of an agitation vessel clean...

...SOLUTION: A **cover** part 17 of an agitation vessel 11 is obliquely pierced downward by an exhaust **pipe** 18, and the front end of the exhaust **pipe** 18 is completely thrust toward an approximate center part in the agitation vessel 11. The front end of the exhaust **pipe** 18 is caused to face a position in the vicinity of the hot water surface...

... a) are mixed and agitated, sticking of materials (b) to the inside face of the **cover** part 17 and the inside peripheral surface of the agitation vessel is reduced because vapor...

... this vapor (c) are immediately sucked and discharged from the front and of the exhaust **pipe** 18 without reaching the inside face of the **cover** part 17 or the inside peripheral surface of the agitation vessel 11.

19/3,K/50 (Item 14 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05505681 \*\*Image available\*\*  
BEND STAGE FOR AUTOMATIC **VENDING MACHINE**

PUB. NO.: 09-120481 [JP 9120481 A]  
PUBLISHED: May 06, 1997 (19970506)  
INVENTOR(s): TAKANO AKITOSHI  
APPLICANT(s): FUJI ELECTRIC CO LTD [000523] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 07-278203 [JP 95278203]  
FILED: October 26, 1995 (19951026)

BEND STAGE FOR AUTOMATIC **VENDING MACHINE**  
...JAPIO KEYWORD:Automatic **Vending Machines** )

ABSTRACT

PROBLEM TO BE SOLVED: To prevent an automatic **vending machine** and its front floor from soiling by securing such a constitution where a bend stage is pushed up toward a **draining** port by a spring and **covers** the **draining** port when the bend stage is horizontally moved with rotation toward the outside of the...

...SOLUTION: This machine is provided with a tray 7 which **covers** a **draining** port 1a, a shaft 8 where the tray 7 is attached, a spring 9 which presses the tray 7 to **cover** the port 1a. When a bend stage 1 is kept inside the main body of...

...the main body of the machine. As a result, the port 1a opens toward a **draining** bucket 4. When the inside of the machine is cleaned, the stage 1 is rotated...

...the tray 7 is pushed up toward the port 1a by the spring 9 and **covers** the port 1a.

19/3,K/51 (Item 15 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05498305 \*\*Image available\*\*  
UNIT COOLER FOR REFRIGERATOR

PUB. NO.: 09-113105 [JP 9113105 A]  
PUBLISHED: May 02, 1997 (19970502)  
INVENTOR(s): NAKANISHI TOSHIFUMI  
HOSOE YOSHIHISA  
APPLICANT(s): HITACHI AIR CONDITIONING & REFRIG CO LTD [470868] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 07-294793 [JP 95294793]  
FILED: October 17, 1995 (19951017)

...JAPIO KEYWORD:Automatic **Vending Machines** )

ABSTRACT

PROBLEM TO BE SOLVED: To enable an inspection and a cleaning of a **drain** pan to be easily carried out by a method wherein the **drain** pan is fixed to a lower part of a main body casing of a unit cooler through more than two adjusting screws so as to enable the **drain** pan to be moved up and down...

...refrigerator through a hanger fitting 3. This unit cooler 2 is constructed such that a **drain** pan 7 is hung and supported at a lower part of a casing 5 having a **cover** 6 fixed thereto through an adjusting bolt 18. Then, this adjusting part 18 is composed...

...the adjusting screw 22 are connected by a set screw so as to enable the **drain** pan to be moved up and down. With such an arrangement as above, it

is possible to perform an easy inspection and cleaning of the drain pan  
7.

19/3,K/52 (Item 16 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05392258 \*\*Image available\*\*  
**BEVERAGE SUPPLY MACHINE**

PUB. NO.: 09-007058 [JP 9007058 A]  
PUBLISHED: January 10, 1997 (19970110)  
INVENTOR(s): SHINOHARA TAIZO  
TAKAGI TOSHIO  
APPLICANT(s): FUJI ELECTRIC CO LTD [000523] (A Japanese Company or  
Corporation), JP (Japan)  
APPL. NO.: 07-151524 [JP 95151524]  
FILED: June 19, 1995 (19950619)

**BEVERAGE SUPPLY MACHINE**  
...JAPIO KEYWORD:Automatic Vending Machines )

ABSTRACT

PURPOSE: To prevent an odor inside a **beverage supply machine** from being transferred to water in a water reservoir by providing a **pipe** for taking in odorless air to the water reservoir...

...The water reservoir 41 is constituted of a water reservoir main body 41b and a **cover** 41a and a packing 22 is interposed between them so as to improve the tight sealing performance of the water reservoir main body 41b and the **cover** 41a. For a liquid level indicator 21, so as to eliminate a clearance with the **cover** 41a, a float type liquid level indicator 21 with a built-in lead switch for...

...the clearance is attained. An outside air take-in part 23 is provided on the **cover** 41a of the water reservoir 4, the opening part, of an introducing **pipe** 20 pushed in and attached to the take-in part 23 is put out of...

... for the going in and out of air is present other than from the introducing **pipe** 20, the air with odor does not come in.

19/3,K/53 (Item 17 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05273431 \*\*Image available\*\*  
**BEVERAGE PREPARING DEVICE**

PUB. NO.: 08-228931 [JP 8228931 A]  
PUBLISHED: September 10, 1996 (19960910)  
INVENTOR(s): IWAMOTO YOSHIHIRO  
APPLICANT(s): ORUGO KK [326544] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 07-038928 [JP 9538928]  
FILED: February 28, 1995 (19950228)

**BEVERAGE PREPARING DEVICE**

ABSTRACT

March 13, 2003 33 11:12

PURPOSE: To eliminate air leakage and to surely eject boiling water from an ejecting **pipe** by completely sealing a hot-water heater tank and a sealing **cover** .

...

...CONSTITUTION: While the flange part 15 for the sealing **cover** 13 of the sealing **cover** 13 for sealing the hot-water heater tank of this **beverage** preparing **device** is formed in a step shape, sealing packing 18 whose vertical cross section is U...

... of the hot-water heater tank is extended between the step shape of the sealing **cover** 13 and the flange part 20 of a tank hanging member 14 to which the

19/3,K/54 (Item 18 from file: 347)

DIALOG(R)File 347:JAPIO

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05174431 \*\*Image available\*\*  
SWITCH

PUB. NO.: 08-129931 [JP 8129931 A]  
PUBLISHED: May 21, 1996 (19960521)  
INVENTOR(s): KIKUCHI TOSHIO  
SAOMOTO TAKUHIKO  
APPLICANT(s): HOSIDEN CORP [327818] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 06-267052 [JP 94267052]  
FILED: October 31, 1994 (19941031)

...JAPIO KEYWORD:Automatic **Vending Machines** )

ABSTRACT

...plate spring 4 in a hollow case formed of a bottomed base 1 and a **cover** , the movable side contact flaps 32, 34 are separated from the fixed side contact flaps 31, 33 by the action of a cam surface 23 of an actuator. **Drain** holes 15a, 15b, 15c are provided on a bottom plate 11 of the bottomed base 1, and the downward slope toward the **drain** holes 15a, 15b, 15c is provided on the bottom plate 11.

19/3,K/55 (Item 19 from file: 347)

DIALOG(R)File 347:JAPIO

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04128850 \*\*Image available\*\*  
CANISTER COOLER OF CUP TYPE AUTOMATIC **VENDING MACHINE**

PUB. NO.: 05-120550 [JP 5120550 A]  
PUBLISHED: May 18, 1993 (19930518)  
INVENTOR(s): YAMANISHI TOSHIMITSU  
KITA TOSHIKAZU  
APPLICANT(s): KUBOTA CORP [000105] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 03-208366 [JP 91208366]  
FILED: August 21, 1991 (19910821)  
JOURNAL: Section: P, Section No. 1607, Vol. 17, No. 491, Pg. 32,  
September 06, 1993 (19930906)

CANISTER COOLER OF CUP TYPE AUTOMATIC **VENDING MACHINE**

...JAPIO KEYWORD:Automatic **Vending Machines** )

ABSTRACT

... raw material stocked in a canister by providing a heat conduction body to penetrate a **cover** , submerge the lower edge to the cold water of a water bath and extend the upper edge in the upper direction of the **cover** and an air blower to such the air at the external part of the water...

...CONSTITUTION: The cooler is provided with a **cover** 23 to close an upper surface opening 22 of a water bath 3, a heat conduction body 9 to penetrate the **cover** 23, submerge the lower edge in cold water E of the water bath 3 and extend the upper edge in the upper direction of the **cover** 23 and an air blower 11 to attract the air at the external part of...

...by the heat conduction body 9 is received by a recessed part 24 of the **cover** 23 and collected to a **drain** bucket 26, the water level of the water bath 3 is not fluctuated.

19/3,K/56 (Item 20 from file: 347)

DIALOG(R)File 347:JAPIO

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03731095 \*\*Image available\*\*

RAINWATER **DRAINAGE** CONSTRUCTION

PUB. NO.: 04-096195 [JP 4096195 A]

PUBLISHED: March 27, 1992 (19920327)

INVENTOR(s): WAKINISHI HIROSHI

KURIBAYASHI RYOZO

OGAWA SADAHIRO

APPLICANT(s): MATSUSHITA REFRIG CO LTD [000448] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 02-211111 [JP 90211111]

FILED: August 08, 1990 (19900808)

JOURNAL: Section: P, Section No. 1387, Vol. 16, No. 327, Pg. 76, July 16, 1992 (19920716)

RAINWATER **DRAINAGE** CONSTRUCTION

...JAPIO KEYWORD:Automatic **Vending Machines** )

ABSTRACT

PURPOSE: To **drain** rainwater without fail by securing double **drain** paths ...

...rainwater entered inside through abutted point of a seal part, the upper edge of a **cover** member 3A for sign, a holding plate 32 is received by a bucket-shaped groove....

...the back side of an inclined surface 31a of an upper panel 31 through a **drain** hole 34 to be discharged to a cavity part 20 leading to the outside while...

19/3,K/57 (Item 21 from file: 347)

DIALOG(R)File 347:JAPIO

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03595323 \*\*Image available\*\*

BREWED **BEVERAGE** MANUFACTURING METHOD AND **APPARATUS** THEREFOR

PUB. NO.: 03-258223 [JP 3258223 A]

PUBLISHED: November 18, 1991 (19911118)

INVENTOR(s): IMAI MICHIIYA  
YAMATO YOSHITAKA  
OTA TAKASHI  
ICHIOKA JUN  
APPLICANT(s): NICHIREI CORP [352309] (A Japanese Company or Corporation),  
JP (Japan)  
TOYO ENG WORKS LTD [358848] (A Japanese Company or  
Corporation), JP (Japan)  
APPL. NO.: 02-058780 [JP 9058780]  
FILED: March 08, 1990 (19900308)  
JOURNAL: Section: C, Section No. 910, Vol. 16, No. 61, Pg. 69,  
February 17, 1992 (19920217)

BREWED **BEVERAGE** MANUFACTURING METHOD AND **APPARATUS** THEREFOR

ABSTRACT

...CONSTITUTION: An upper **cover** 3 is opened with a bottom **cover** 4 closed, and a specified amount of raw material, for example, ground coffee 18 of 15-40 mesh, is put in a drum. Then, after the upper **cover** is closed and clamped by a clamp, a hot water feed valve V(sub 3...

...is opened and inert gas (N(sub 2), for example) is fed through a gas **pipe** 14 to pressurize the inside of the drum. The pressure of the inert gas is...

...brewed coffee liquid in the drum passes through a screen 17, accumulated in the bottom **cover** 4, and flows out through delivery **pipe** 15.

19/3,K/58 (Item 22 from file: 347)

DIALOG(R)File 347:JAPIO

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03509520 \*\*Image available\*\*

PIPING **UNIT** FITTED WITH **VENDING MACHINE**

PUB. NO.: 03-172420 [JP 3172420 A]

PUBLISHED: July 25, 1991 (19910725)

INVENTOR(s): AOYAMA KENICHIRO

NAKATOGAWA SATOSHI

KATAYAMA TAKASHI

ABE ERIKO

APPLICANT(s): TOTO LTD [001008] (A Japanese Company or Corporation), JP  
(Japan)

APPL. NO.: 01-313830 [JP 89313830]

FILED: December 01, 1989 (19891201)

JOURNAL: Section: M, Section No. 1171, Vol. 15, No. 414, Pg. 28,  
October 22, 1991 (19911022)

PIPING **UNIT** FITTED WITH **VENDING MACHINE**

...JAPIO KEYWORD:Automatic **Vending Machines** )

ABSTRACT

... by installing a closet, urinal, wash basin, etc., in front of a casing with a **front face plate** interposed, wherein the casing consists of frame members which are installed into the form of a box, and incorporating a **vending machine** into the casing...

...In front of the casing 3, a bench type closet 13 is installed with a **front face plate** 11 interposed, and a water supply **pipe** 15, water exhaust **pipe** 17, deodorizing **pipe** 19, etc., for the closet 13 are accommodated in the casing 3. A display board...

Search Report from Ginger D. Roberts

... item vendor 23 accommodated in the casing 3 is installed being flush with the mentioned **front face plate** 11 while confronting the opening 21 in it.  
?

?show files;ds

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200317

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File 344:Chinese Patents Abs Aug 1985-2003/Jan

(c) 2003 European Patent Office

File 347:JAPIO Oct 1976-2002/Nov(Updated 030306)

(c) 2003 JPO & JAPIO

File 371:French Patents 1961-2002/BOPI 200209

(c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	718050	COVER OR COVERS OR COVERPLATE? ? OR (EXTERIOR OR OUTSIDE OR CONCEALMENT? OR FACE OR FRONT OR FACIA) (2W) PLATE? ?
S2	5345	FACEPLATE? ? OR FRONTPLATE? ?
S3	36166	(VENDING OR VENDOR? OR CANDY? OR SODA? OR BEVERAGE? OR SNA-CK?) (3N) (MACHINE? ? OR EQUIPMENT? OR UNIT? OR DEVICE? OR APPA-RATUS?)
S4	4418	(OUTPUT? OR OUT()PUT? OR RETURN? OR GIVE? OR GIVING OR EXP-ELL? OR EXCHANG?) (4N) (MONEY OR MONIES OR CASH OR DOLLAR OR CO-IN? ?)
S5	51693	(RECEIV? OR RECEPTION? OR INPUT? OR INSERT? OR PLACE? OR P-LACING OR PUTTING) (4N) (CANS OR ALUMINUM OR ALUMINIUM OR BOTTL-E? ? OR CONTAINER? ?)
S6	85651	(DRIP? OR FLUID? OR CONTENT? ? OR DRAIN?) (5N) (BASIN? OR BO-WL? ? OR LIP? ? OR INSET? OR AREA OR OPENING OR PIPE? ?)
S7	1587	(S1 OR S2) AND S3
S8	44	S4 AND S7
S9	0	S5 AND S8
S10	0	S6 AND S9
S11	39	S5 AND S7

?t11/4/all

11/4/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

IM- \*Image available\*

AA- 2003-073656/200307|

TI- Material mixing **device** of **vending machine** |

PA- SAMSUNG KWANGJU ELECTRONICS CO LTD (SMSU )|

AU- <INVENTORS> KIM O B|

NC- 001|

NP- 001|

PN- KR 2002060849 A 20020719 KR 20011914 A 20010112 200307 B|

AN- <LOCAL> KR 20011914 A 20010112|

AN- <PR> KR 20011914 A 20010112|

LA- KR 2002060849(1)|

AB- <PN> KR 2002060849 A|

AB- <NV> NOVELTY - A material mixing **device** of a **vending machine** is provided to improve the structure of the material mixing device, thus reducing a washing time thereof and improving the convenience of management.|

AB- <BASIC> DETAILED DESCRIPTION - The material mixing **device** of a **vending machine** comprises a material container base member(10) used to support a plurality of material **containers** capable of **receiving** various kinds of materials and formed with plural air discharge holes(11); a mixing vessel(20) formed with plural projected tubes(21) corresponding to the air discharge holes and a beverage discharge hole(22); and a mixing vessel **cover** (30) formed with plural material guiding holes(32) and a hot water supply hole(31).

pp; 1 DwgNo 1/10|

DE- <TITLE TERMS> MATERIAL; MIX; DEVICE; VENDING; MACHINE|



DC- T05|  
 IC- <MAIN> G07F-013/00|  
 MC- <EPI> T05-H06|  
 FS- EPI||

11/4/2 (Item 2 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2003 Thomson Derwent. All rts. reserv.

IM- \*Image available\*  
 AA- 2002-221202/200228|  
 XR- <XRAM> C02-067784|  
 TI- Tofu producing container for storing tofu in shops, has **cover**  
 integrally fixed with metal plate for reflecting microwave along  
 container-projections and providing uniform heating of soybean milk in  
 container|  
 PA- MIZUTANI K (MIZU-I)|  
 NC- 001|  
 NP- 001|  
 PN- JP 2001346534 A 20011218 JP 2000165759 A 20000602 200228 B|  
 AN- <LOCAL> JP 2000165759 A 20000602|  
 AN- <PR> JP 2000165759 A 20000602|  
 LA- JP 2001346534(7)|  
 AB- <PN> JP 2001346534 A|  
 AB- <NV> NOVELTY - The tofu producing container (2) has a **cover** (3)  
 integrally fixed with a metal plate (9) for reflecting microwave along  
 container-projections and providing uniform heating of soybean milk,  
**placed in the container .** |  
 AB- <BASIC> USE - For producing tofu and for serving hot tofu in shops.  
 ADVANTAGE - Since the soybean milk is heated uniformly and retained  
 with uniform temperature in the container, delicious tofu is produced  
 in short time. The container also serves as **vendor machine** for  
 storing and selling tofu in shops.  
 DESCRIPTION OF DRAWING(S) - The figure shows the sectional drawing  
 of the tofu producing container.  
 Tofu producing container (2)  
**Cover** (3)  
 Metal plate (9)  
 pp; 7 DwgNo 1/13|  
 DE- <TITLE TERMS> TOFU; PRODUCE; CONTAINER; STORAGE; TOFU; SHOP; **COVER** ;  
 INTEGRAL; FIX; METAL; PLATE; REFLECT; MICROWAVE; CONTAINER; PROJECT;  
 UNIFORM; HEAT; SOY; MILK; CONTAINER|  
 DC- D13|  
 IC- <MAIN> A23L-001/20|  
 MC- <CPI> D03-F02; D03-K08|  
 FS- CPI||

11/4/3 (Item 3 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2003 Thomson Derwent. All rts. reserv.

IM- \*Image available\*  
 AA- 2002-146115/200219|  
 TI- Manual type mini- **vending machine** for hanging on wall|  
 PA- CHANG K C (CHAN-I)|  
 AU- <INVENTORS> CHANG K C|  
 NC- 001|  
 NP- 001|  
 PN- KR 2001084899 A 20010907 KR 200110160 A 20010209 200219 B|  
 AN- <LOCAL> KR 200110160 A 20010209|

AN- <PR> KR 200110160 A 20010209|  
 LA- KR 2001084899(1)|  
 AB- <PN> KR 2001084899 A|  
 AB- <NV> NOVELTY - A manual type mini- **vending machine** for hanging on the wall is provided which easily finds the containers by collecting all existing **containers** at one **place**, and obtains effects of shortening of tea time and reduction of materials accordingly.|  
 AB- <BASIC> DETAILED DESCRIPTION - The manual type mini- **vending machine** for hanging on the wall comprises a button type coffee amount control apparatus which is composed of opening, closing and sealing functions so that the weight or amount of tea is received by a plastic, a spring using elasticity or gravity of a material, and is constructed so that an appropriate amount of tea is received by one touch method, and the amount thereof is controlled by the power of the hand; a cup supporter (8) for supporting the cup; a tea pack case (3) which is installed at the right side the manual type mini- **vending machine** so that tea packs can be contained, and the **cover** (11) of which is made of acryl plate so that users can discriminate what kinds of teas are contained inside the case; and loops (2) formed on the upper part of the mini- **vending machine** so that the **vending machine** can be conveniently hung on the wall.  
 pp; 1 DwgNo 1/10|  
 DE- <TITLE TERMS> MANUAL; TYPE; MINI; VENDING; MACHINE; HANG; WALL|  
 DC- T05|  
 IC- <MAIN> G07F-013/00|  
 MC- <EPI> T05-H06|  
 FS- EPI||

11/4/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

IM- \*Image available\*  
 AA- 2001-454588/200149|  
 XR- <XRAM> C01-137584|  
 XR- <XRPX> N01-336658|  
 TI- Mascot attachment structure for PET bottles, consists of cup-shaped structure which includes aperture in upper section, with radially extending notches into which **bottle cover** is inserted |  
 PA- NAKAJIMA KK (NAKA-N); NEW WAYS KK (NEWW-N)|  
 NC- 001|  
 NP- 001|  
 PN- JP 2001158434 A 20010612 JP 99376155 A 19991202 200149 B|  
 AN- <LOCAL> JP 99376155 A 19991202|  
 AN- <PR> JP 99376155 A 19991202|  
 LA- JP 2001158434(4)|  
 AB- <PN> JP 2001158434 A|  
 AB- <NV> NOVELTY - The attachment structure (1) consists of a cup structure which includes an aperture in the upper section. The aperture is provided with the radially extending notches along the periphery. The lidded mouth (F) of the PET bottle (P) pierces through the aperture. The lower end of the tubular portion (4) of the cup structure abuts the periphery of the PET bottle.|  
 AB- <BASIC> USE - For PET bottles containing drinking water, seasoning liquid, etc., sold in stores, supermarkets, and **vending machine**.  
 ADVANTAGE - Provision of attachment structure promotes selling of goods through **vending machine**. The notches damaged the neck when the structure is pulled. Hence mischief and theft of mascot is reliably prevented.  
 DESCRIPTION OF DRAWING(S) - The figure shows the partial cross-sectional side view of the mascot attachment structure with PET

bottle.

Attachment structure (1)  
Tubular portion (4)  
Lidded mouth (F)  
PET bottle (P)  
pp; 4 DwgNo 1/4|

DE- <TITLE TERMS> MASCOT; ATTACH; STRUCTURE; PET; BOTTLE; CONSIST; CUP;  
SHAPE; STRUCTURE; APERTURE; UPPER; SECTION; RADIAL; EXTEND; NOTCH;  
BOTTLE; **COVER** ; INSERT|  
DC- A92; Q32|  
IC- <MAIN> B65D-023/00|  
IC- <ADDITIONAL> B65D-025/20|  
MC- <CPI> A99-A|  
FS- CPI; EngPI||

11/4/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 2001-355255/200137|

DX- <RELATED> 2001-136771; 2002-351544|

XR- <XRPX> N01-258151|

TI- Thermally regulated storage container e.g. **vending machine** ,  
monitors internal conditions of **container** and provides **input** to  
control system operable to direct functions of refrigeration unit|

PA- CRANE CO (CRAN )|

AU- <INVENTORS> HUFFMAN J P; PERCY C W|

NC- 095|

NP- 004|

PN- WO 200131598 A2 20010503 WO 2000US41469 A 20001025 200137 B|

PN- AU 200129172 A 20010508 AU 200129172 A 20001025 200149

PN- US 6378324 B1 20020430 US 99427240 A 19991026 200235

<AN> US 2000632475 A 20000804

PN- EP 1230628 A2 20020814 EP 2000992755 A 20001025 200261

<AN> WO 2000US41469 A 20001025|

AN- <LOCAL> WO 2000US41469 A 20001025; AU 200129172 A 20001025; US 99427240  
A 19991026; US 2000632475 A 20000804; EP 2000992755 A 20001025; WO  
2000US41469 A 20001025|

AN- <PR> US 2000632475 A 20000804; US 99427240 A 19991026|

FD- WO 200131598 A2 G07F-009/00

<DS> (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU  
CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR  
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE  
SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

<DS> (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS  
LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

FD- AU 200129172 A G07F-009/00 Based on patent WO 200131598

FD- US 6378324 B1 F25D-019/02 CIP of application US 99427240

CIP of patent US 6170285

FD- EP 1230628 A2 G07F-009/00 Based on patent WO 200131598

<DS> (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV  
MC MK NL PT RO SI|

LA- WO 200131598(E<PG> 26); EP 1230628(E)|

DS- <NATIONAL> AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE  
DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI  
SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW|

DS- <REGIONAL> AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LT; LU; LV; MC; MK; NL; PT; RO; SI; EA; GH; GM; KE; LS; MW; MZ; OA; SD;  
SE; SL; SZ; TZ; UG; ZW|

AB- <PN> WO 200131598 A2|  
 AB- <NV> NOVELTY - Refrigeration unit (32) is removably installed in cabinet housing (12) having an open face. A ducting system mates with unit (32). Self-sealing **cover** provides environmental seal between storage area and external environment. Monitoring system monitors internal conditions of storage **container** and provides **input** to control system operable to direct the functions of unit (32), to maintain internal conditions.|  
 AB- <BASIC> DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for thermally regulated **vending machine**.  
     USE - E.g. **vending machine**.  
     ADVANTAGE - Enables a wide variety of environmentally hostile conditions while protecting owner's interest in both the contents and the container.  
     DESCRIPTION OF DRAWING(S) - The figure shows the perspective view of refrigeration unit partially installed in bottom of cabinet.  
     Cabinet housing (12)  
     Refrigeration unit (32)  
     pp; 26 DwgNo 5/11|  
 DE- <TITLE TERMS> THERMAL; REGULATE; STORAGE; CONTAINER; VENDING; MACHINE; MONITOR; INTERNAL; CONDITION; CONTAINER; INPUT; CONTROL; SYSTEM; OPERATE; DIRECT; FUNCTION; REFRIGERATE; UNIT|  
 DC- P27; Q75; T05; X27|  
 IC- <MAIN> F25D-019/02; G07F-009/00|  
 IC- <ADDITIONAL> A47F-003/04|  
 MC- <EPI> T05-H04; T05-H08C; X27-F|  
 FS- EPI; EngPI||

11/4/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*  
 AA- 2000-677906/200066|  
 XR- <XRPX> N01-190545|  
 TI- **Device** by reverse **vending machine** for bottles and cans has corresponding opening positioned within in internal bottle/can-handling **device** of reverse **vending machine** |  
 PA- REPANT AS (REPA-N)|  
 AU- <INVENTORS> ANDERSEN N E; GUNTVEIT L|  
 NC- 093|  
 NP- 005|  
 PN- NO 9901853 A 20001020 NO 991853 A 19990419 200066 B|  
 PN- WO 200067211 A1 20001109 WO 2000N0116 A 20000411 200128  
 PN- NO 309298 B1 20010108 NO 991853 A 19990419 200106  
 PN- AU 200038460 A 20001117 AU 200038460 A 20000411 200111  
 PN- EP 1180259 A1 20020220 EP 2000917500 A 20000411 200221  
     <AN> WO 2000N0116 A 20000411|  
 AN- <LOCAL> NO 991853 A 19990419; WO 2000N0116 A 20000411; NO 991853 A 19990419; AU 200038460 A 20000411; EP 2000917500 A 20000411; WO 2000N0116 A 20000411|  
 AN- <PR> NO 991853 A 19990419|  
 FD- WO 200067211 A1 G07F-007/06  
     <DS> (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW  
     <DS> (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW  
 FD- NO 309298 B1 G07F-007/06 Previous Publ. patent NO 9901853  
 FD- AU 200038460 A G07F-007/06 Based on patent WO 200067211

FD- EP 1180259 A1 G07F-007/06 Based on patent WO 200067211  
 <DS> (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV  
 MC MK NL PT RO SE SI|  
 LA- WO 200067211(E<PG> 12); EP 1180259(E)|  
 DS- <NATIONAL> AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK  
 DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK  
 LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL  
 TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW|  
 DS- <REGIONAL> AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
 LT; LU; LV; MC; MK; NL; PT; RO; SE; SI; EA; GH; GM; KE; LS; MW; OA; SD;  
 SL; SZ; TZ; UG; ZW|  
 AB- <PN> WO 200067211 A1|  
 AB- <NV> NOVELTY - A feed opening (22) for bottles and cans is made in a  
 front **cover** (14) without a fixed connection to pipe-work etc. Below  
 the feed opening (22) in the front **cover** (14) is formed a through  
 opening (26) for emptying of remnants from **bottles** or **cans** before  
 their **insertion** into the reverse **vending machine** through the feed  
 opening (22). A corresponding opening (20) is positioned within in the  
 internal bottle/can-handling **device** of the reverse **vending machine**  
 . |  
 AB- <BASIC> USE - In reverse **vending machines** for bottles and/or cans.  
 ADVANTAGE - Handling bottles and cans fed through the feed opening,  
 counts their number and types and calculates and supplies the customer,  
 in return with a note stating the sum due to him/her. Allows emptying  
 of bottles and cans without slowing down the bottle depositing process.  
 Easy dismantling of the machine construction.  
 DESCRIPTION OF DRAWING(S) - The drawing shows a corresponding split  
 view, in which the same front **cover** has been pulled straight out from  
 wall.  
 front **cover** (14)  
 corresponding opening (20)  
 feed opening (22)  
 through opening (26)  
 pp; 12 DwgNo 2/3|  
 DE- <TITLE TERMS> DEVICE; REVERSE; VENDING; MACHINE; BOTTLE; CAN;  
 CORRESPOND; OPEN; POSITION; INTERNAL; BOTTLE; CAN; HANDLE; DEVICE;  
 REVERSE; VENDING; MACHINE|  
 DC- T05|  
 IC- <MAIN> G07F-007/06|  
 MC- <EPI> T05-H02E; T05-H08A|  
 FS- EPI||

11/4/7 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 2000-558070/200051|

XR- <XRPX> N00-413014|

TI- Closing **device** for **beverage** containers or cans has **cover** disk  
 hermetically fastened on mouth of container with detachable tab fixed  
 to junction flap allowing tab to be rotated away from emptying opening|

PA- SIGNORELLI A (SIGN-I)|

AU- <INVENTORS> SIGNORELLI A|

NC- 084|

NP- 002|

PN- WO 200044635 A1 20000803 WO 99IT16 A 19990127 200051 B|

PN- AU 9925444 A 20000818 AU 9925444 A 19990127 200057

<AN> WO 99IT16 A 19990127|

AN- <LOCAL> WO 99IT16 A 19990127; AU 9925444 A 19990127; WO 99IT16 A  
 19990127|

AN- <PR> WO 99IT16 A 19990127|  
 FD- WO 200044635 A1 B65D-017/34  
 <DS> (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE  
 ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
 LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT  
 UA UG US UZ VN YU ZW  
 <DS> (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS  
 LU MC MW NL OA PT SD SE SZ UG ZW  
 FD- AU 9925444 A B65D-017/34 Based on patent WO 200044635|  
 LA- WO 200044635(E<PG> 14)|  
 DS- <NATIONAL> AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI  
 GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV  
 MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG  
 US UZ VN YU ZW|  
 DS- <REGIONAL> AT; BE; CH; CY; DE; DK; EA; ES; FI; FR; GB; GH; GM; GR; IE;  
 IT; KE; LS; LU; MC; MW; NL; OA; PT; SD; SE; SZ; UG; ZW|  
 AB- <PN> WO 200044635 A1|  
 AB- <NV> NOVELTY - The closing device (1) has a **cover** disk (2)  
 hermetically fastened on the mouth of the container (1a), and a  
 detachable tab (3) pre-dinked on the disk according to a closed line  
 and an action ring (5), engaged on the tab. A junction flap (7) is  
 hermetically fastened on the disk and on the tab, the flap being free  
 to rotate around its own axis of hermetic hinging to allow the tab to  
 remain fastened to the disk, after the can is opened, and to be rotated  
 until reaching a position that does not hamper the user. A possible  
 auxiliary portion (7c) of the flap allows to **cover** the emptying  
 opening (4) superimposing the auxiliary portion itself to it.|  
 AB- <BASIC> USE - For closing cans, e.g. aluminum cans, and similar  
 containers for beverages such as carbonated drinks.  
 ADVANTAGE - Closing device does not **insert** tab inside **container**  
 and maintains tab fastened to **cover** disk while not hampering user or  
 causing injury hazards.  
 DESCRIPTION OF DRAWING(S) - The drawing shows a perspective view of  
 the device in an open condition associated with a respective container.  
**beverage closing device** (1)  
 container (1a)  
**cover** disk (2)  
 detachable tab (3)  
 emptying opening (4)  
 action ring (5)  
 junction flap (7)  
 auxiliary portion (7c)  
 pp; 14 DwgNo 2/4|  
 DE- <TITLE TERMS> CLOSE; DEVICE; BEVERAGE; CONTAINER; CAN; **COVER** ; DISC;  
 HERMETIC; FASTEN; MOUTH; CONTAINER; DETACH; TAB; FIX; JUNCTION; FLAP;  
 ALLOW; TAB; ROTATING; EMPTY; OPEN|  
 DC- Q32|  
 IC- <MAIN> B65D-017/34|  
 FS- EngPI||

11/4/8 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 2000-529450/200048|

XR- <XRPX> N00-391794|

TI- Bottle quick-cooling **apparatus** for **beverages** e.g. wine used in  
 party hall, has slit-shaped hole formed at side surface of **inserting**  
 hole where head of **bottle** is **inserted** |

PA- SHINTO KK (SHIN-N)|

NC- 001|  
NP- 002|  
PN- JP 2000205729 A 20000728 JP 994646 A 19990111 200048 B|  
PN- JP 3333992 B2 20021015 JP 994646 A 19990111 200275|  
AN- <LOCAL> JP 994646 A 19990111; JP 994646 A 19990111|  
AN- <PR> JP 994646 A 19990111|  
FD- JP 3333992 B2 F25D-011/00 Previous Publ. patent JP 2000205729|  
LA- JP 2000205729(6); JP 3333992(6)|  
AB- <PN> JP 2000205729 A|  
AB- <NV> NOVELTY - A **cover** material (2) with an inlet port is formed at the upper surface of a hollow tank. The inlet port has an inserting hole where the body of a **bottle** is **inserted**. A slit-shaped hole is formed at the side surface of an inserting hole where the head of a **bottle** is **inserted**.|  
AB- <BASIC> USE - For beverages e.g. wine, beer, softdrink, used in party hall, restaurant, bar.  
ADVANTAGE - Offers a bottle quick-cooling apparatus with compact component which can contain more than one or two bottle. Wipes out adhered dewing formation when extracting cooled bottle by seat **cover**.  
DESCRIPTION OF DRAWING(S) - The figure shows an entire perspective view of the bottle quick-cooling apparatus.  
**Cover** material (2)  
pp; 6 DwgNo 1/6|  
DE- <TITLE TERMS> BOTTLE; QUICK; COOLING; APPARATUS; BEVERAGE; WINE; PARTY; HALL; SLIT; SHAPE; HOLE; FORMING; SIDE; SURFACE; INSERT; HOLE; HEAD; BOTTLE; INSERT|  
DC- Q75|  
IC- <MAIN> F25D-011/00|  
FS- EngPI||

11/4/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

IM- \*Image available\*  
AA- 2000-499318/200044|  
XR- <XRPX> N00-370093|  
TI- Closing **device** for **beverage** containers using pre-dinking|  
PA- SIGNORELLI A (SIGN-I)|  
AU- <INVENTORS> SIGNORELLI A|  
NC- 084|  
NP- 002|  
PN- WO 200044634 A1 20000803 WO 99IT15 A 19990127 200044 B|  
PN- AU 9925443 A 20000818 AU 9925443 A 19990127 200057  
<AN> WO 99IT15 A 19990127|  
AN- <LOCAL> WO 99IT15 A 19990127; AU 9925443 A 19990127; WO 99IT15 A 19990127|  
AN- <PR> WO 99IT15 A 19990127|  
FD- WO 200044634 A1 B65D-017/32  
<DS> (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW  
<DS> (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW  
FD- AU 9925443 A B65D-017/32 Based on patent WO 200044634|  
LA- WO 200044634(E<PG> 14)|  
DS- <NATIONAL> AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG

US UZ VN YU ZW|  
DS- <REGIONAL> AT; BE; CH; CY; DE; DK; EA; ES; FI; FR; GB; GH; GM; GR; IE;  
IT; KE; LS; LU; MC; MW; NL; OA; PT; SD; SE; SZ; UG; ZW|  
AB- <PN> WO 200044634 A|  
AB- <NV> NOVELTY - The closing device is constructed using a **cover** disk  
(3) over the mouth of the container (2), an openable flap (4),  
pre-dinked on the **cover** disk and fastened by one of its ends to the  
disk. An action ring (8) is located on the flap.|  
AB- <BASIC> DETAILED DESCRIPTION - A plate shaped element (13) is located  
between container and **cover** disk, with an empty opening partially  
facing the opening flap.  
USE - For containing general beverages and fluids.  
ADVANTAGE - The closing device does not **insert** the tab inside the  
**container** or cause injury hazards.  
DESCRIPTION OF DRAWING(S) - The drawing shows the can with the top  
open  
container (2)  
**cover** disk (3)  
openable flap (4)  
action ring (8)  
plate shaped element (13)  
pp; 14 DwgNo 2/4|  
DE- <TITLE TERMS> CLOSE; DEVICE; BEVERAGE; CONTAINER; PRE|  
DC- Q32|  
IC- <MAIN> B65D-017/32|  
FS- EngPI||

11/4/10 (Item 10 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
(c) 2003 Thomson Derwent. All rts. reserv.

IM- \*Image available\*  
AA- 2000-433898/200038|  
XR- <XRPX> N00-324012|  
TI- Dummy container for automatic **vending machine**, has back support  
with arm having hinged **cover** and ring at ends so that longitudinal  
rear side portion of dummy container is fixed among arm, **cover** and  
ring|  
PA- TAKEDA PLASTICS KK (TAKE-N)|  
NC- 001|  
NP- 001|  
PN- JP 2000137858 A 20000516 JP 98312761 A 19981104 200038 B|  
AN- <LOCAL> JP 98312761 A 19981104|  
AN- <PR> JP 98312761 A 19981104|  
LA- JP 2000137858(6)|  
AB- <PN> JP 2000137858 A|  
AB- <NV> NOVELTY - A back support (2) has vertical arm (21) whose upper and  
lower end portions are respectively provided with a hinged **cover** (22)  
and ring (23) which are openable and closable. Rear outer longitudinal  
periphery of a vertical cylindrical dummy **container** main structure  
(1) is **inserted** into both sides of the arm. The **cover** and the ring  
are connected to top and bottom surface of the main structure  
respectively.|  
AB- <BASIC> DETAILED DESCRIPTION - The main structure's front surface is  
currently fixed to a display substrate.  
USE - In automatic **vending machine** for supply of **beverage**  
containers.  
ADVANTAGE - Reduces cost and makes installation assembly of dummy  
container easy due to simple structure of the back support.  
DESCRIPTION OF DRAWING(S) - The figure shows the side view of dummy  
container in dissolved state.



Dummy container main structure (1)  
 Back support (2)  
 Arm (21)  
 Hinged **cover** (22)  
 Ring (23)  
 pp; 6 DwgNo 1/15|  
 DE- <TITLE TERMS> DUMMY; CONTAINER; AUTOMATIC; VENDING; MACHINE; BACK;  
 SUPPORT; ARM; HINGE; **COVER** ; RING; END; SO; LONGITUDE; REAR; SIDE;  
 PORTION; DUMMY; CONTAINER; FIX; ARM; **COVER** ; RING|  
 DC- T05|  
 IC- <MAIN> G07F-009/02|  
 IC- <ADDITIONAL> G07F-009/10|  
 MC- <EPI> T05-H06; T05-H08A|  
 FS- EPI||

11/4/11 (Item 11 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
 (c) 2003 Thomson Derwent. All rts. reserv.

IM- \*Image available\*  
 AA- 1999-213047/199918|  
 XR- <XRPX> N99-156655|  
 TI- Equipment for underground cool preservation of containers holding  
 beverages|  
 PA- KERSTEN J J P M R (KERS-I); PEETERS V H (PEET-I)|  
 AU- <INVENTORS> KERSTEN J J P M R; PEETERS V H|  
 NC- 001|  
 NP- 001|  
 PN- NL 1006237 C6 19981208 NL 971006237 A 19970605 199918 B|  
 AN- <LOCAL> NL 971006237 A 19970605|  
 AN- <PR> NL 971006237 A 19970605|  
 FD- NL 1006237 C6 E04B-001/00|  
 LA- NL 1006237(10)|  
 AB- <BASIC> NL 1006237 C  
 NOVELTY - The inner reservoir (2) at its end facing the ground (12)  
 is closed by a **cover** part (4). At the front a number of openings (8)  
 are provided, orientated in the axial direction of the inner reservoir,  
 each formed so that with an outwardly moved position of the inner  
 reservoir a **container** can be **inserted** or removed sideways via the  
 openings (8).  
 USE - For keeping containers of beverages cool underground.  
 ADVANTAGE - The **equipment** enables **beverages** to be kept cool  
 without recourse to cool boxes or to the use of costly cellars.  
 DETAILS OF DRAWINGS - The figure shows a cross-section of the  
 device. inner reservoir (2); **cover** (4); openings (8); ground (12).  
 Dwg.1/3|  
 DE- <TITLE TERMS> EQUIPMENT; UNDERGROUND; COOLING; PRESERVE; CONTAINER;  
 HOLD; BEVERAGE|  
 DC- Q43|  
 IC- <MAIN> E04B-001/00|  
 FS- EngPI||

11/4/12 (Item 12 from file: 350)  
 DIALOG(R)File 350:Derwent WPIX  
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IM- \*Image available\*  
 AA- 1999-086700/199908|  
 XR- <XRPX> N99-063094|  
 TI- **Beverage** automatic **vending** **machine** e.g. for syrup beverage - has

container filled with syrup solution, which moves from releasing unit and slides along with stand when container is bent forward for ejecting solution|

PA- TOSHIBA KIKI KK (TSKI )|

NC- 001|

NP- 001|

PN- JP 10320635 A 19981204 JP 97127226 A 19970516 199908 B|

AN- <LOCAL> JP 97127226 A 19970516|

AN- <PR> JP 97127226 A 19970516|

FD- JP 10320635 A G07F-013/00|

LA- JP 10320635(12)|

AB- <BASIC> JP 10320635 A

The machine includes a main body (1) which accommodates a syrup solution container (9). A detachable liquid feed hose (101) is connected to an outlet (b1) of the container.

When the **container placed** horizontally is bent forward for injecting the solution, the container moves from the releasing unit provided in front face of the body, and slides along with a stand (79) and a gradient is set up. Thus, the container along with stand is inclined for injecting the solution.

ADVANTAGE - Enables easy insertion or removal of connector. Prevents damage of connector during cleaning or refilling of raw material, by covering with **cover**. Enables effective usage of syrup solution by bending of container.

Dwg.3/14|

DE- <TITLE TERMS> BEVERAGE; AUTOMATIC; VENDING; MACHINE; SYRUP; BEVERAGE; CONTAINER; FILLED; SYRUP; SOLUTION; MOVE; RELEASE; UNIT; SLIDE; STAND; CONTAINER; BEND; FORWARD; EJECT; SOLUTION|

DC- T05|

IC- <MAIN> G07F-013/00|

MC- <EPI> T05-H06; T05-H08A|

FS- EPI||

11/4/13 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 1998-326609/199829|

XR- <XRPX> N98-255542|

TI- Sorting apparatus for classifying bottle, steel can and aluminium can in **vending machine** - has storage containers for accomodating bottle, steel and aluminium cans provided in storage tank, corresponding to **bottle**, steel and **aluminium cans receiving** zone of pipe installed in **cover member**|

PA- IKUGAKI M (IKUG-I)|

NC- 001|

NP- 001|

PN- JP 10118575 A 19980512 JP 96309864 A 19961015 199829 B|

AN- <LOCAL> JP 96309864 A 19961015|

AN- <PR> JP 96309864 A 19961015|

FD- JP 10118575 A B07B-013/11|

LA- JP 10118575(4)|

AB- <BASIC> JP 10118575 A

The apparatus has a **cover member** (2) and a storage tank (14). A vinyl chloride pipe (11) of necessary diameter having an opening (1) is attached to **cover member** through hanging bolt (3). A pipe fixation member (13) and a steel can stopper (5) are provided on either ends of the pipe. A first and second steel boards (10,6) are provided on respective board fixation members (12,8) respectively inside the pipe at bottom side.

The second steel board has a bottle stopper (9). The **cover** member is installed on the storage tank which contains bottle, steel can and aluminium can storage container (16-18), respectively provided corresponding to bottle, steel can and aluminium can falling zone (A-C) of pipe.

ADVANTAGE - Shortens classification time of bottle, steel can and aluminium can. Reduces labour. Improves maintenance.

Dwg.1/4|

DE- <TITLE TERMS> SORT; APPARATUS; CLASSIFY; BOTTLE; STEEL; CAN; ALUMINIUM;  
CAN; VENDING; MACHINE; STORAGE; CONTAINER; BOTTLE; STEEL; ALUMINIUM;  
CAN; STORAGE; TANK; CORRESPOND; BOTTLE; STEEL; ALUMINIUM; CAN; RECEIVE;  
ZONE; PIPE; INSTALLATION; **COVER** ; MEMBER|  
DC- P43; Q35|  
IC- <MAIN> B07B-013/11|  
IC- <ADDITIONAL> B07C-005/20; B07C-005/344; B65F-001/00; B65F-001/08;  
B65F-001/16|  
FS- EngPI||

11/4/14 (Item 14 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 1998-183034/199817|

XR- <XRPX> N98-144894|

TI- Automatic test **equipment** for **beverage** bottle covered with PP cap -  
has data processor that performs statistical processing after  
accumulating measurement data from cap size measuring apparatus and cap  
plug-opening torque measuring apparatus|

PA- FUJI DENKI TECHNO ENG KK (FUJI-N); KITA KYUSHU COCA-COLA BOTTLING KK  
(COKE )|

NC- 001|

NP- 001|

PN- JP 10038527 A 19980213 JP 96195838 A 19960725 199817 B|

AN- <LOCAL> JP 96195838 A 19960725|

AN- <PR> JP 96195838 A 19960725|

FD- JP 10038527 A G01B-011/02|

LA- JP 10038527(9)|

AB- <BASIC> JP 10038527 A

The equipment has an optical cap size measuring apparatus (6) that determines the screw depth of a PP cap without contacting the PP cap. A plug-opening torque measuring apparatus that measures the plug-opening torque of the PP cap is placed on an inspection stage (5) of the main body (2) of an inspection apparatus.

A guide conveyor (3) aligns and supplies every tested **bottle** (11) **received** from the production line side of the inspection stage. A sending-out conveyor (4) ejects the bottles for inspection. A handling device (8) delivers a tested bottle, which has passed through the guide conveyor and carried to the inspection stage, to the cap size measuring apparatus and the cap plug-opening torque measuring apparatus. A sequencer performs the general controlling of the apparatuses. A data processor accumulates measurement data obtained by the cap size measuring apparatus and the cap plug-opening torque measuring apparatus and performs a statistical processing.

ADVANTAGE - Enables fully automatic and winding inspection of PP cap. Enables continuous measurement thereby improving efficiency of inspection and improving reliability of obtaining measurement data.

Dwg.1/9|

DE- <TITLE TERMS> AUTOMATIC; TEST; EQUIPMENT; BEVERAGE; BOTTLE; **COVER** ;  
CAP; DATA; PROCESSOR; PERFORMANCE; STATISTICAL; PROCESS; AFTER;  
ACCUMULATE; MEASURE; DATA; CAP; SIZE; MEASURE; APPARATUS; CAP; PLUG;

OPEN; TORQUE; MEASURE; APPARATUS|  
 DE- <ADDITIONAL WORDS> PILFER-PROOF; PACKAGING|  
 DC- Q31; S02|  
 IC- <MAIN> G01B-011/02|  
 IC- <ADDITIONAL> B65B-057/02|  
 MC- <EPI> S02-A03B2|  
 FS- EPI; EngPI||

11/4/15 (Item 15 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 1997-305838/199728|

XR- <XRPX> N97-253306|

TI- **Beverage** container shredding **machine** - has coverage board which is interlocked to opening and closing of **cover** that is provided on insertion opening of guide passage|

PA- NAKABAYASHI KK (NAKA-N)|

NC- 001|

NP- 001|

PN- JP 9117687 A 19970506 JP 95303782 A 19951026 199728 B|

AN- <LOCAL> JP 95303782 A 19951026|

AN- <PR> JP 95303782 A 19951026|

FD- JP 9117687 A B02C-018/22|

LA- JP 9117687(5)|

AB- <BASIC> JP 9117687 A

The shredding machine consists of a guide passage (3) installed on a pair of reversely rotating rotary knives (4). An opening/closing **cover** (5) is provided on an insertion opening (2) of the guide passage. A coverage board (7) which is interlocked to the opening and closing of the **cover** is rotatably provided on the way of the guide passage.

A motor (8) drives the coverage board. When the used **container** is inserted through the **insertion** opening, the **cover** opens. The coverage board remains in a closed position at that time. The **cover** closes only after the full length of the container is entered into the guide passage. The coverage board opens when the **cover** is closed.

USE/ADVANTAGE - In e.g. empty can, paper cup. Improves collection efficiency of containers. Offers safety even when foreign materials are input by mistake.

Dwg.1/3|

DE- <TITLE TERMS> BEVERAGE; CONTAINER; SHRED; MACHINE; **COVER** ; BOARD; INTERLOCKING; OPEN; CLOSE; **COVER** ; INSERT; OPEN; GUIDE; PASSAGE|

DC- P41|

IC- <MAIN> B02C-018/22|

IC- <ADDITIONAL> B02C-023/02|

FS- EngPI||

11/4/16 (Item 16 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 1996-196263/199620|

XR- <XRPX> N96-164764|

TI- Discriminating dispensing bin for e.g. store with drink **vending machine** - has controller which drives solenoid to regulate opening and shutting of door of insertion opening, based on frequency signal generated by oscillator|

PA- KANSEI CORP (KANS-N)|  
 NC- 001|  
 NP- 001|  
 PN- JP 8067304 A 19960312 JP 94204796 A 19940830 199620 B|  
 AN- <LOCAL> JP 94204796 A 19940830|  
 AN- <PR> JP 94204796 A 19940830|  
 FD- JP 8067304 A B65F-001/14|  
 LA- JP 8067304(6)|  
 AB- <BASIC> JP 8067304 A

The bin has a collection container with a **cover**. A substrate (1) with an insertion opening (3) is provided on one side of the **cover**. A door (6) is mounted on the substrate to open and shut the insertion opening. A solenoid (9) operated by a controller (14), is provided to regulate the opening and shutting of the door.

The controller has an oscillator which generates a frequency signal corresp. to a used drink **container inserted** on the **insertion** opening. The controller drives the solenoid based on the oscillation frequency signal from the oscillator.

USE/ADVANTAGE - Enables classification of used drink container e.g. paper cup, tin can, aluminum can, steel can.

Dwg.3/15|

DE- <TITLE TERMS> DISCRIMINATE; DISPENSE; BIN; STORAGE; DRINK; VENDING;  
 MACHINE; CONTROL; DRIVE; SOLENOID; REGULATE; OPEN; SHUT; DOOR; INSERT;  
 OPEN; BASED; FREQUENCY; SIGNAL; GENERATE; OSCILLATOR|  
 DC- P43; Q35; T05; X25|  
 IC- <MAIN> B65F-001/14|  
 IC- <ADDITIONAL> B07C-005/344|  
 MC- <EPI> T05-H08; X25-F03B1|  
 FS- EPI; EngPI||

11/4/17 (Item 17 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 1995-130082/199517|

XR- <XRPX> N95-102178|

TI- **Beverage** can heating **device** - comprises cylindrical container having hollow bottom **cover** filled with water and chemical material **received** within space defined by **container** and inner cylinder|

PA- HSU Y T (HSUY-I)|

AU- <INVENTORS> HSU Y T|

NC- 001|

NP- 001|

PN- US 5392762 A 19950228 US 94185621 A 19940124 199517 B|

AN- <LOCAL> US 94185621 A 19940124|

AN- <PR> US 94185621 A 19940124|

FD- US 5392762 A F24J-001/00|

LA- US 5392762(9)|

AB- <BASIC> US 5392762 A

The **beverage** can heating **device** includes a container body having a hollow bottom **cover** filled with water and covered with a plastics film, an inner cylinder having a detachable bottom cap with bottom teeth facing the plastic film, and a chemical material received within the space defined between the container body and the inner cylinder.

When a beverage can is inserted into the inner cylinder and pressed against the bottom cap of the inner cylinder, the bottom cap is disconnected from the inner cylinder causing the plastics film pierced by the bottom teeth permitting the chemical material to mix with water in producing a chemical reaction and releasing heat to warm up the

contents of the beverage can.

USE/ADVANTAGE - A **beverage** can heating **device** which instantly heats the beverage can when the beverage can is inserted and depressed. Can be used to heat individual beverage can(s) whenever and wherever one wishes.

Dwg.3/6|

DE- <TITLE TERMS> BEVERAGE; CAN; HEAT; DEVICE; COMPRISE; CYLINDER;  
CONTAINER; HOLLOW; BOTTOM; **COVER** ; FILLED; WATER; CHEMICAL; MATERIAL;  
RECEIVE; SPACE; DEFINE; CONTAINER; INNER; CYLINDER|

DC- Q74|

IC- <MAIN> F24J-001/00|

FS- EngPI||

11/4/18 (Item 18 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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IM- \*Image available\*

AA- 1995-031380/199505|

XR- <XRPX> N95-024982|

TI- **Beverage** infusion **machine** e.g. espresso or coffee maker - has lower container or boiler connecting to upper container via intermediate cup, and chimney conduit having movable sleeve for allowing rising passage of liquid from lower boiler container|

PA- BIESSE SPA (BIES-N)|

AU- <INVENTORS> ZANARINI G|

NC- 002|

NP- 003|

PN- EP 630602 A1 19941228 EP 94830246 A 19940524 199505 B|

PN- US 5463935 A 19951107 US 94246116 A 19940519 199550

PN- IT 1262755 B 19960704 IT 93BS73 A 19930622 199709|

AN- <LOCAL> EP 94830246 A 19940524; US 94246116 A 19940519; IT 93BS73 A 19930622|

AN- <PR> IT 93BS73 A 19930622|

CT- DE 70135; FR 1452538; FR 1482449; FR 663218; FR 955638; US 2021293; US 2507633; US 2824509; US 3439602|

FD- EP 630602 A1 A47J-031/04

FD- US 5463935 A A47J-031/04

FD- IT 1262755 B A47J-000/00|

LA- EP 630602(E<PG> 5); US 5463935(6)|

DS- <REGIONAL> AT; CH; DE; ES; FR; GB; IT; LI; NL; PT|

AB- <BASIC> EP 630602 A

The infusion machine has a lower container or boiler (11) which is filled with water or other liquid, and an upper container (12) having a lid (13). A cup (14) is located between the two chambers and contains an infusion component. A chimney conduit (15) extends through the bottom of the upper container and opens into the cup. the chimney is closed at the top and has radial holes (15') to allow liquid to rise from the lower container through the cup and infusion contents when the boiler is heated.

Outlets (16) are located in the bottom of the upper container and connect with the cup. The chimney has a movable sleeve (17) which can close the outlets while leaving the radial holes open to allow liquid to rise from the lower container to the upper one, or vice-versa to cause the infused liquid to flow back to the lower chamber.

ADVANTAGE - Usable in multiple or single infusion mode.

Dwg.3/5|

AB- <US> US 5463935 A

An infusion maker for making hot beverages based on material including herbs, coffee and tea, the infuser comprising:  
a lower **container** for **receiving** starting water, said lower

container defining a boiler;  
 an upper container provided with a cover ;  
 a cup positioned between said upper container and said lower container, said cup for holding the material from which the infusion is produced;  
 a cup suction conduit extending from said cup downwardly and ending in a proximity of a bottom of said lower container;  
 a chimney conduit extending upwardly through a bottom of said upper container, said chimney conduit being open at a bottom for communication with said cup, said chimney conduit being closed at a top and having at least one radial hole providing communication for liquid in the lower container to run upwardly into said upper container, after flowing through the material in the cup, upon heating the infusion maker;  
 said bottom of said upper container defining an outlet connecting said upper container with said cup;  
 a movable sleeve connected to said chimney conduit, said sleeve including a sleeve opening, said sleeve being movable relative to said radial hole to define a radial hole open position, providing communication between an interior of said chimney conduit and said upper container and said sleeve being movable to cover said radial hole in a radial hole closed position, said sleeve including a closing element, said closing element being movable with said sleeve to an outlet closed position for closing said outlet and being movable to a outlet open position wherein liquid from said upper container pours into said cup, said radial hole open position of said sleeve corresponding with said outlet closed position of said sleeve and said radial hole closed position of said sleeve corresponding with said outlet open position of said sleeve.

Dwg.2/3|

DE- <TITLE TERMS> BEVERAGE; INFUSION; MACHINE; EXPRESSO; COFFEE; MAKER;  
 LOWER; CONTAINER; BOILER; CONNECT; UPPER; CONTAINER; INTERMEDIATE; CUP;  
 CHIMNEY; CONDUIT; MOVE; SLEEVE; ALLOW; RISE; PASSAGE; LIQUID; LOWER;  
 BOILER; CONTAINER|  
 DC- P28|  
 IC- <MAIN> A47J-000/00; A47J-031/04|  
 FS- EngPI||

11/4/19 (Item 19 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 1994-094408/199412|

XR- <XRPX> N94-074071|

TI- Coin operated vending machine for sale of drinking water - has micro switch which is deactivated as soon as revolving seat is moved slightly resulting in immediate termination of water supply|

PA- SHIEH T (SHIE-I); SHIEH T D (SHIE-I)|

AU- <INVENTORS> LIN W J; LIN W; SHIEH T D|

NC- 002|

NP- 003|

PN- GB 2271048 A 19940406 GB 9220756 A 19921002 199412 B|

PN- US 5373874 A 19941220 US 92948213 A 19920921 199505 N

PN- GB 2271048 B 19960619 GB 9220756 A 19921002 199628|

AN- <LOCAL> GB 9220756 A 19921002; US 92948213 A 19920921; GB 9220756 A 19921002|

AN- <PR> GB 9220756 A 19921002; US 92948213 A 19920921|

FD- GB 2271048 A A47B-077/18

FD- US 5373874 A B67C-003/26

FD- GB 2271048 B A47B-077/18|

LA- GB 2271048(11); US 5373874(6); GB 2271048(1)|

AB- <BASIC> GB 2271048 A

The machine has a revolving dispenser comprising a frame seat (20) and a revolving seat (30). The frame seat has plates (21-24) fastened to the machine housing. The frame seat has an opening (25) and a receiving space which accommodates the revolving seat. The revolving seat rotates to move into or out of the receiving space of the frame seat. The **face plate** has a size that fits into the frame seat opening of when the revolving seat is turned completely into the receiving space. The seat bottom plate (33) **receives a container** (50) for use in **receiving** the dispensed liquids.

The frame seat has a side plate with a hole where a micro switch is disposed having a triggering rod extending into the frame seat via the hole.

ADVANTAGE - Has revolving dispenser which permits easy large container positioning and withdrawal.

Dwg.3/4|

AB- <GB> GB 2271048 B

A **vending machine** comprising a dispensing chamber provided with liquid dispensing means and an opening in one face, and angularly displaceable support having a base plate for supporting a container and a **face plate**, the support being angularly displaceable between a first position in which the **face plate** closes the opening in said one face of the chamber and the base plate is accommodated within the chamber and a second position in which the **face plate** opens the opening and the base plate extends outwardly of the chamber so that a container containing liquid dispensed by the **vending machine** can be removed from the base plate.

Dwg.1/2|

AB- <US> US 5373874 A

The fluid **vending machine** includes a pivoting dispensing assembly which comprises a housing having the form of a cylindrical sector, and a conformingly shaped platform rotatably secured in it having a sectorial base plate and rectangular inner and outer sides. A spring disposed between the base plate of the platform and a bottom plate of the housing urges the platform towards a closed position in it.

A user supplied container disposed on the base plate is filled with fluid dispensed through an aperture on a top plate of the housing. A switch on the housing in contact with the inner side of the platform when in the closed position shuts off the egress of fluid into the container should the user draw out the platform during a dispense cycle.

USE/ADVANTAGE - For dispensing potable water. Allows user to stop dispense cycle at any time so as to fill containers of non-standard volume, or to initially acquire small volume of water for cleaning container.

(Dwg.3/4|

DE- <TITLE TERMS> COIN; OPERATE; VENDING; MACHINE; SALE; DRINK; WATER; MICRO; SWITCH; DEACTIVATE; REVOLVING; SEAT; MOVE; SLIGHT; RESULT; IMMEDIATE; TERMINATE; WATER; SUPPLY|

DC- P25; Q39; T05|

IC- <MAIN> A47B-077/18; B67C-003/26|

IC- <ADDITIONAL> B67C-003/34; B67D-005/64|

MC- <EPI> T05-H06; T05-H08A|

FS- EPI; EngPI||

11/4/20 (Item 20 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 1994-026415/199403|

XR- <XRPX> N94-020498|

TI- Coin treatment apparatus for selection by currency **unit** for **vending machine** - transfers coins to predetermined receiving space and discharges coins into receiving box in another receiving space|

PA- KOREA TELECOM AUTHORITY (KOTE-N); KOREA TELECOM CORP (KOTE-N)|

AU- <INVENTORS> JIN B W; JOO W Y; KIM E H; KWON S H|

NC- 021|

NP- 008|

PN- WO 9400828 A1 19940106 WO 93KR50 A 19930618 199403 B|

PN- EP 610458 A1 19940817 EP 93913610 A 19930618 199432

<AN> WO 93KR50 A 19930618

PN- JP 6511100 W 19941208 WO 93KR50 A 19930618 199508

<AN> JP 94502210 A 19930618

PN- US 5538469 A 19960723 WO 93KR50 A 19930618 199635

<AN> US 94196143 A 19940627

PN- KR 9503793 B1 19950418 KR 9210646 A 19920619 199710

PN- EP 610458 B1 19970409 EP 93913610 A 19930618 199719

<AN> WO 93KR50 A 19930618

PN- DE 69309649 E 19970515 DE 609649 A 19930618 199725

<AN> EP 93913610 A 19930618

<AN> WO 93KR50 A 19930618

PN- CA 2115838 C 19980714 CA 2115838 A 19930618 199839|

AN- <LOCAL> WO 93KR50 A 19930618; EP 93913610 A 19930618; WO 93KR50 A 19930618; WO 93KR50 A 19930618; JP 94502210 A 19930618; WO 93KR50 A 19930618; US 94196143 A 19940627; KR 9210646 A 19920619; EP 93913610 A 19930618; WO 93KR50 A 19930618; DE 609649 A 19930618; EP 93913610 A 19930618; WO 93KR50 A 19930618; CA 2115838 A 19930618|

AN- <PR> KR 9210646 A 19920619|

CT- DE 2809752; DE 3041473; US 4286703|

FD- WO 9400828 A1 G07D-003/04

<DS> (National): CA JP US

<DS> (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

FD- EP 610458 A1 G07D-003/04 Based on patent WO 9400828

<DS> (Regional): CH DE FR GB IT LI

FD- JP 6511100 W G07D-003/00 Based on patent WO 9400828

FD- US 5538469 A G07D-003/14 Based on patent WO 9400828

FD- EP 610458 B1 G07D-003/04 Based on patent WO 9400828

<DS> (Regional): CH DE FR GB IT LI

FD- DE 69309649 E G07D-003/04 Based on patent EP 610458

Based on patent WO 9400828

FD- KR 9503793 B1 G07D-001/00

FD- CA 2115838 C G07D-003/04|

LA- WO 9400828(E<PG> 17); EP 610458(E<PG> 1); JP 6511100(1); US 5538469(10); EP 610458(E<PG> 12)|

DS- <NATIONAL> CA JP US|

DS- <REGIONAL> AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; LI|

AB- <BASIC> WO 9400828 A

The selection box (1) has a set of dampers (11a, 11b) to reduce the momentum of the inserted coin, a sorter section (12) to sort out whether the inserted coins are correct or incorrect and a selecting and transferring section (10) for selecting the coins passing the sorter section are transferred to the receiving space. The sorter section is made of a usual sorter sensor for sorting correct or incorrect sizes of coins.

In the selecting and transferring section, a **cover** (6) is assembled in a box (5) which is part of the body of the selection box, a returning lid (14) is installed on one side of the **cover** and gates and coin transfer paths for selecting the coin passing the sorter section by each currency unit are installed on the base. The first gate

(4a) and second and third gates (4b, 4c) are sequentially arranged in accordance with the currency units and additional gates can be installed in cases where the currency units are increased.

USE - Selection and sorting of coins for **vending machines** and public telephones.

Dwg.1/91

AB- <EP> EP 610458 B

A coin treatment apparatus, having a selection box (1) for selecting coins by sorting out whether such coins are correct or incorrect and transferring such coins to a corresponding receiving space and a receiving box (3) for storing the coins passing said selection box (1) and discharging a change, comprising: a plurality of gates (4a,4b,4c) installed on a base (5) within said selection box (1), wherein said gates change the coins in the vertical or horizontal direction by being projected from said base (5) or by being embedded into said base to select the coins by each currency unit and to transfer the coins to said corresponding receiving space, characterised by a plurality of projection dies (5a,6a) and a guiding jaw (6b) formed on said base (5) and a **cover** (6) within said selection box (1), wherein said projection dies and said guiding jaw form a coin transfer path in order to separate again the coins passing through an arbitrary gate among said gates by each currency unit and to collect the coins; and a push die (5b) and an inclination surface (5j,5c) formed on said base (5) and said **cover** (6), wherein said push die (5b) and said inclination surface incline the coins of smaller diameter among the coins passing through said coin transfer path in order to fall down into a **receiving container** (7a-7d).

Dwg.1/91

AB- <US> US 5538469 A

A coin treatment apparatus, having a selection box for selecting coins by sorting out whether such coins are correct or incorrect, said correct and incorrect coins being sized in accordance with specific currency units, a receiving space into which said incorrect coins are transferred, and a receiving box for storing said correct coins, once passed through said selection box, the apparatus further comprising:

a base;

a **cover** adapted to said base;

a plurality of gates oriented substantially vertically to each other;

means attached to said base and said gates for projecting said gates from said base, said projecting means being in accordance with the currency unit of each of said correct coins;

each of said gates for receiving at least one currency unit of said correct coins traveling in a substantially vertical direction, and transferring said correct coins to a substantially horizontal direction of travel;

a plurality of projection dies and at least one guiding jaw formed by said base and said **cover** within said selection box, wherein said projection dies and said at least one guiding jaw form a coin transfer path for receiving said correct coins from said respective gates along said substantially horizontal direction of travel and further separating said correct coins based on a first diameter; and

at least one push die and at least one inclination surface formed by said base and said **cover**, wherein said push die and said inclination surface incline said correct coins having diameters smaller than said first diameter along said coin transfer path in order to fall down into said receiving box;

said receiving box additionally comprising:

a bottom side and a plurality of **receiving containers** having first openings;

a removing plate in communication with a discharge plate at the bottom side of said receiving box, both said removing plate and said

discharge plate including second openings being sized to correspond with said first openings of said **receiving containers** within said **receiving** box; and  
means for linearly reciprocating said removing plate and said discharge plate in opposite directions.

Dwg.1/9|

DE- <TITLE TERMS> COIN; TREAT; APPARATUS; SELECT; CURRENCY; UNIT; VENDING;  
MACHINE; TRANSFER; COIN; PREDETERMINED; RECEIVE; SPACE; DISCHARGE; COIN  
; RECEIVE; BOX; RECEIVE; SPACE|  
DC- T05|  
IC- <MAIN> G07D-001/00; G07D-003/00; G07D-003/04; G07D-003/14|  
IC- <ADDITIONAL> G07F-009/00|  
MC- <EPI> T05-H03; T05-H05C|  
FS- EPI||

11/4/21 (Item 21 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 1991-009534/199102|

XR- <XRPX> N91-007454|

TI- Coin operated **vending machine** for fried food - stored frozen, fried on demand and dispensed automatically|

PA- HIGASHI HIROSHIMA GOLF SHINKO KK (HIGA-N); DAIKURE KK (DAIK-N)|

AU- <INVENTORS> OKADA K|

NC- 014|

NP- 005|

PN- EP 406475 A 19910109 EP 89117780 A 19890926 199102 B|

PN- US 5029520 A 19910709 US 89410354 A 19890921 199130

PN- EP 406475 B1 19940302 EP 89117780 A 19890926 199409

PN- DE 68913525 E 19940407 DE 613525 A 19890926 199415

<AN> EP 89117780 A 19890926

PN- CA 1329490 C 19940517 CA 612642 A 19890922 199425|

AN- <LOCAL> EP 89117780 A 19890926; US 89410354 A 19890921; EP 89117780 A 19890926; DE 613525 A 19890926; EP 89117780 A 19890926; CA 612642 A 19890922|

AN- <PR> JP 89174905 A 19890706|

CT- CH 436615; EP 84206; FR 1564088; JP 61020520; NL 39202; US 2678250; US 4457947; EP 234996; JP 6120520|

FD- EP 406475 A

<DS> (Regional): AT BE CH DE ES FR GB GR IT LI NL SE

FD- EP 406475 B1 A47J-037/12

<DS> (Regional): AT BE CH DE ES FR GB GR IT LI NL SE

FD- DE 68913525 E A47J-037/12 Based on patent EP 406475

FD- CA 1329490 C A47J-037/12|

LA- EP 406475(E<PG> 21)|

DS- <REGIONAL> AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; NL; SE|

AB- <BASIC> EP 406475 A

Food portions (20) are stored frozen in sealed foil containers on a chain-driven stack system (32) in a freezer compartment (1A).

Conventional coin operation vending technology causes the next in line package to be tipped off the stack, the lid cut away and the contents fried in the frying compartment (1B) in frying baskets.

After frying the food is transferred to disposable cups and dispensed.

USE/ADVANTAGE - An automatic **vending machine** for frying food. An automatic hot food portion maker that does not use dehydrated food. (20pp Dwg.No.2/13)|

AB- <EP> EP 406475 B

An automatic food frying and vending system including a main body

(1) of the system, a storage chamber (1A) for preserving food material under freeze and a frying chamber for cooking the food material in cooking oil, both of which are provided in discrete sections in said main body (1), characterised in that a stocker (20) for receiving and keeping a multitude of containers (P) each of which has a lid (P2) and packs the food material (F) within is disposed in said storage chamber and constructed by arranging a plurality of chain conveyors (22a-22d) extending in the vertical direction on a turn table (21) in the circumferential direction, said each chain conveyor **receiving** and keeping thereon the **containers** of different kinds of food material from the other, the containers are taken out from the storage chamber, one by one, by carrying means (40), received and kept by transporting and feeding means (60) for opening the lid by a cutter (64) to introduce the food material into the frying chamber.

Dwg.2/13|

AB- <US> US 5029520 A

A storage chamber for storing the food material to be fried in their frozen state and a frying chamber for frying the material in cooking oil are installed in the main body of the automatic food frying and vending system in discrete sections designated for their respective purposes. Then a stocker for receiving and keeping a larger number of packed containers, each having lid or **cover**, of the abovementioned food material to be fried is provided in the abovementioned storage chamber.

A carrying device takes out, one by one, from the storage chamber each container of the food material to be fried which has so far been housed in the stocker. A transporting and feeding device **receives** the **container** of the food material to be fried, as taken out of the storage chamber by the carrying device. USE - An automatic food frying and vending system. (17pp)|

DE- <TITLE TERMS> COIN; OPERATE; VENDING; MACHINE; FRY; FOOD; STORAGE; FREEZE; FRY; DEMAND; DISPENSE; AUTOMATIC|

DC- P28|

IC- <MAIN> A47J-037/12|

FS- EngPI||

11/4/22 (Item 22 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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IM- \*Image available\*

AA- 1990-211389/199028|

XR- <XRPX> N90-164156|

TI- **Beverage dispensing device** - has one or more containers having outlet opening and deformable wall enclosed in pressure vessel with dispensing valve|

PA- FELDMANN J (FELD-I); FELDMAN J (FELD-I)|

AU- <INVENTORS> FELDMANN J|

NC- 014|

NP- 005|

PN- EP 377195 A 19900711 EP 89123904 A 19891223 199028 B|

PN- EP 377195 B1 19921202 EP 89123904 A 19891223 199249

PN- DE 68903754 E 19930114 DE 603754 A 19891223 199303

<AN> EP 89123904 A 19891223

PN- ES 2037383 T3 19930616 EP 89123904 A 19891223 199327

PN- IL 88894 A 19940624 IL 88894 A 19890106 199427|

AN- <LOCAL> EP 89123904 A 19891223; EP 89123904 A 19891223; DE 603754 A 19891223; EP 89123904 A 19891223; EP 89123904 A 19891223; IL 88894 A 19890106|

AN- <PR> IL 88894 A 19890106|

CT- CH 365964; FR 2411318; FR 2607109; GB 2146705; GB 2159583|

FD- EP 377195 A  
 <DS> (Regional): AT BE CH DE ES FR GB GR IT LI LU NL SE  
 FD- EP 377195 B1 B67D-001/04  
 <DS> (Regional): AT BE CH DE ES FR GB GR IT LI LU NL SE  
 FD- DE 68903754 E B67D-001/04 Based on patent EP 377195  
 FD- ES 2037383 T3 B67D-001/04 Based on patent EP 377195  
 FD- IL 88894 A B67D-001/04  
 LA- EP 377195(E<PG> 9)  
 DS- <REGIONAL> AT; BE; CH; DE; ES; FR; GB; GR; IT; LI; LU; NL; SE  
 AB- <BASIC> EP 377195 A  
 One or more filled containers (20,74), having an outlet opening (20a,74a) and a deformable wall, are enclosed within a pressure vessel (18,70,90). A dispensing valve (26,208,110,112) communicates with the containers.  
 Pressurized fluid is introduced into the pressure vessel (18,70,90) so that when the discharge valve (26,108,110,112) is opened, the wall of the container (20,74) is squeezed, expelling its contents. The containers are normally family size, soft drink plastics bottles. The device is suitable for use in private homes, office and commercial places.  
 USE - For the dispensing of drinks, particularly carbonated soft drink beverages. (11pp Dwg.No.1/10)  
 AB- <EP> EP 377195 B  
 A liquid dispensing **device**, particularly for carbonated **beverages**, comprising a pressure vessel (18,70,90) with a removable **cover** (14,72,92), two or more liquid containers (20,74) having a deformable wall and an opening (20a,74a), a dispensing valve (26,108,110,112) in communication with the openings, and means for introducing pressurised fluid into the vessel (18,70,90), so that when the valve (26,108,110,112) is opened the liquid is expelled by squeezing the wall of the container (20,74), and discharged through the valve (26,108,110,112), characterised in that the containers (20) are ordinary, family size, carbonated soft drink plastic bottles having a screw threaded neck portion (20a) placed in a normal, upright position by groups of two or more **bottles** (20), being **placed** within said vessel, each of the said groups of bottles (20) containing a different tasting soft drink and connected in parallel via a common adaptor member (96,98,100) by means of said screw threaded neck portion (20a) being screwed in a complementary female screw threaded depression (22) formed in said adaptor member (96,98,100) to a respective dispensing valve (108,110,112).  
 (Dwg.1/9)  
 DE- <TITLE TERMS> BEVERAGE; DISPENSE; DEVICE; ONE; MORE; CONTAINER; OUTLET; OPEN; DEFORM; WALL; ENCLOSE; PRESSURE; VESSEL; DISPENSE; VALVE  
 DC- P42; Q33; Q39; Q56  
 IC- <MAIN> B67D-001/04  
 IC- <ADDITIONAL> B05B-007/00; B65D-047/22; F04B-043/00  
 FS- EngPI|

11/4/23 (Item 23 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 1990-163824/199021|

XR- <XRPX> N90-127170|

TI- **Vending machine** for providing french fried potatoes - re-hydrates measured dry potato powder and extrudes dough into hot oil in cooking chamber and delivers to consumer in cup|

PA- R/M TRUST CO (RMRM-N); FRY MACH VENDING (FRYM-N); SEDONA IND LTD (SEDO-N); CAMPBELL C K (CAMP-I); PILLAR L D (PILL-I); POMERLEAU D C

March 13, 2003 22 11:05

(POME-I); RASMUSSEN R F (RASM-I)|  
 AU- <INVENTORS> CAMPBELL C K; PILLAR L D; POMERIEAU D C; RASMUSSEN R F;  
 POMERLEAU D C; POMERLEAU D C|  
 NC- 031|  
 NP- 010|  
 PN- WO 9004346 A 19900503 199021 B|  
 PN- AU 8935527 A 19900514 199031  
 PN- EP 445112 A 19910911 EP 89905558 A 19890410 199137  
 PN- US 5272961 A 19931228 US 88258992 A 19881017 199401  
 PN- AU 645960 B 19940203 AU 8935527 A 19890410 199411  
 PN- KR 9306564 B1 19930721 WO 89US1497 A 19890410 199426  
 <AN> KR 90701300 A 19900618  
 PN- EP 445112 A4 19911227 EP 89905558 A 19890000 199520  
 PN- US 5404796 A 19950411 US 88258992 A 19881017 199520  
 <AN> US 93141116 A 19931022  
 PN- EP 445112 B1 19950628 EP 89905558 A 19890410 199530  
 <AN> WO 89US1497 A 19890410  
 PN- DE 68923292 E 19950803 DE 623292 A 19890410 199536  
 <AN> EP 89905558 A 19890410  
 <AN> WO 89US1497 A 19890410|  
 AN- <LOCAL> EP 89905558 A 19890410; US 88258992 A 19881017; AU 8935527 A  
 19890410; WO 89US1497 A 19890410; KR 90701300 A 19900618; EP 89905558 A  
 19890000; US 88258992 A 19881017; US 93141116 A 19931022; EP 89905558 A  
 19890410; WO 89US1497 A 19890410; DE 623292 A 19890410; EP 89905558 A  
 19890410; WO 89US1497 A 19890410|  
 AN- <PR> US 88258992 A 19881017|  
 CT- US 3685432; US 4428280; US 4505194; US 4520717; US 4646627; US 4677278;  
 US 4694742; US 4722267; US 4785725; EP 298000; WO 8302883; WO 8802999|  
 FD- WO 9004346 A  
 <DS> (National): AU BB BG BR DK FI HU JP KP KR LK MG MW NO RO SD SU  
 <DS> (Regional): AT BE CH DE FR GB IT LU NL OA SE SU  
 FD- EP 445112 A  
 <DS> (Regional): AT BE CH DE FR GB IT LI LU NL SE  
 FD- US 5272961 A A47J-037/12  
 FD- AU 645960 B A47J-037/00 Previous Publ. patent AU 8935527  
 Based on patent WO 9004346  
 FD- US 5404796 A A47J-037/12 Cont of application US 88258992  
 Cont of patent US 5272961  
 FD- EP 445112 B1 A47J-037/12 Based on patent WO 9004346  
 <DS> (Regional): AT BE CH DE FR GB IT LI LU NL SE  
 FD- DE 68923292 E A47J-037/12 Based on patent EP 445112  
 Based on patent WO 9004346  
 FD- KR 9306564 B1 A47J-037/00|  
 LA- US 5272961(12); US 5404796(12); EP 445112(E<PG> 11)|  
 DS- <NATIONAL> AU BB BG BR DK FI HU JP KP KR LK MG MW NO RO SD SU|  
 DS- <REGIONAL> AT; BE; CH; DE; FR; GB; IT; LU; NL; OA; SE; SU; LI|  
 AB- <BASIC> WO 9004346 A

The **apparatus** comprises a **vending machine** (10) housing in dry potato powder hopper (30) from which powder is metered into a cylinder of a rotatable multi-cylinder block (62). Water is added and mixed when the block is rotated to the next stop. The cylinder rotates two more positions provide time for rehydration and then to an extrusion position. A piston presses the rehydrated mixture through a plate to achieve the desired shape and the fries fall into a mesh net in the cooking chamber.

After cooking they are delivered to the consumer in a cup, the process taking about one minute. The cooking oil is filtered and replaced from a reservoir (214) and the machine includes absorption and adsorption filters (264,266) to reduce oil odours.

ADVANTAGE - Provides freshly cooked product in acceptable time.

(29pp Dwg.No.1/8|

AB- <EP> EP 445112 B

**Device** (10) for **vending** fried potato strips in predetermined portion sizes in a discardable container (262) from a rehydrated potato product, said device comprising: (a) dehydrated potato mix hopper means (30) for storing dehydrated potato mix, said hopper means having an inlet and an outlet; (b) shuttle means (32) interposed between said hopper means and a rehydrating means (62,92,104,80,81) for transferring a predetermined amount of potato mix from said hopper means to said rehydrating means for (c) rehydrating potato mix into a shapable dough; means (92,104) for extruding said dough into a plurality of potato strips; (d) cooking means (150) for receiving extruded potato strips from said means for extruding (92,104) and for cooking said potato strips and discharging the cooked strips to a dispensing means (180,280); and (e) said dispensing means (180,280) including a supply of discardable containers (282) for transferring cooked potato strips into each discardable container (282) and for providing access to said containers when filled with cooked potato strips; characterized by (f) said rehydrating means including a cylinder block (62) defining at least three cylinders (65-69) said extruding means (92,104) extruding dough from one of said cylinders, means (80,81) for adding rehydrating water to one of said cylinders (65-69), and means (72) for rotating said cylinder block such that each cylinder moves to a discrete location in which either potato mix is added by said shuttle means (32), rehydrated with water from a water source, stored or extruded through said extruding means (92,104).

(Dwg.1/8|

AB- <US> US 5404796 A

Powder is metered into a cylinder of a rotatable, multi-cylinder block. Water is added when the block is rotated to the next stop. After mixing and passing two ready stations, the dough is extruded into hot oil in a cooking chamber. The oil is filtered and is then replenished from a reservoir.

The dry powder and rehydrating stations are refrigerated. The **vending machine** includes absorption and adsorption filters to scrub the air while cooking to decrease oil odours.

Dwg.3/9

US 5272961 A

A cutter is provided for extruded potato strips. The cooking unit receives extruded potato strips from the cutter and cooks the cut potato strips then discharging the cooked cut strips. A supply of discardable **containers receive** the discharged potato strips, the strips being transferred into one of the discardable containers and access provided to the containers when filled with the cooked potato strips. A cooking chamber has two opposite sides and an open top, a spindle and a motor.

A fry receiving and ejecting elongated flexible mesh has one end fixed at the first side of the cooking chamber, another end of the mesh being attached to the spindle. The spindle is secured to the second side of the cooking chamber to extend the mesh to **cover** the open top of the cooking chamber. The spindle is mounted adjacent the chamber and rotatable by the motor to permit the mesh to be selectively lowered into the chamber by unwinding mesh from the mesh from the spindle to lower the fries into the cooking chamber or raised by winding mesh onto the spindle to eject the fries.

USE - For generating french fried potatoes (chips) from powdered (dehydrated) potato.

Dwg.5/9|

DE- <TITLE TERMS> VENDING; MACHINE; FRENCH; FRY; POTATO; MEASURE; DRY; POTATO; POWDER; EXTRUDE; DOUGH; HOT; OIL; COOK; CHAMBER; DELIVER; CONSUME; CUP|

DC- P28; T05; X25; X27|

IC- <MAIN> A47J-037/12|

MC- <EPI> T05-H04; X25-F03; X27-C03|

FS- EPI; EngPI||

11/4/24 (Item 24 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 1990-068237/199010|

XR- &lt;XRPX&gt; N90-052280|

TI- Electrical coffee or tea dispenser - has nozzle distributing hot water over ground coffee in filter and connected via tubes to water container and heater|

PA- KRUPS STIFTUNG &amp; CO KG R (KRUP-N); KRUPS GMBH &amp; CO KG ROBERT (KRUP-N)|

AU- &lt;INVENTORS&gt; HENN S|

NC- 002|

NP- 005|

PN- DE 3829417 A 19900301 DE 3829417 A 19880831 199010 B|

PN- EP 357878 A 19900314 EP 89109297 A 19890523 199011

PN- US 5046409 A 19910910 US 89394749 A 19890816 199139

PN- EP 357878 B1 19930728 EP 89109297 A 19890523 199330

PN- DE 3829417 C2 19960808 DE 3829417 A 19880831 199636|

AN- <LOCAL> DE 3829417 A 19880831; EP 89109297 A 19890523; US 89394749 A 19890816; EP 89109297 A 19890523; DE 3829417 A 19880831|

AN- &lt;PR&gt; DE 3829417 A 19880831|

CT- A3...9033; DE 8120744; FR 1161383; FR 2160634; FR 3593054; GB 2199486; GB 345628; No-SR.Pub; US 1774927; FR 2593054|

FD- DE 3829417 A

FD- EP 357878 A

FD- EP 357878 B1 A47J-031/04

FD- DE 3829417 C2 A47J-031/24|

LA- DE 3829417(18); EP 357878(G); EP 357878(G&lt;PG&gt; 23); DE 3829417(17)|

AB- &lt;BASIC&gt; DE 3829417 A

The coffee-dispenser has a fresh-water container and a compartment for the finished coffee drink. A rising tube in the water container allows hot water to pass to a filter containing the ground coffee, from whence the finished drink flows to the compartment. The filter body (38) between the container (19) and the dispenser's **cover** (36) is pressure tight.

The filter body has devices (47) to distribute the heated water over the ground coffee. The heated water flows through a hole and the distributing device is a nozzle. The hole is on the bottom of the filter body. This bottom has a tube (45) connecting to the rising tube (20) and connected to the nozzle extending into the filter space.

1/16|

AB- &lt;EP&gt; EP 357878 B

Electrically powered device for preparing infusions, such as coffee, tea or the like, in particular an automatic coffee maker (10) with a housing (11) in the form of a pot whose interior is subdivided by at least one partition wall into a fresh-water **container** (19) and a **receiving** chamber (43) for the finished beverage with a pouring opening (44), whereby the fresh-water container (19) accommodates a rising pipe (20) through which the water heated by means of a heater can be fed to a filter (38) holding the ground coffee or the like and provided with a lid (36), and through the outlet of said filter the finished beverage flows down into the receiving chamber (43), whereby, on the one hand, the filter element (38 to 70) is arranged in a pressure-tight manner between the fresh-water container (19) and the lid (36) of the automatic coffee maker (10) and, on the other hand, devices (47 to 790) distributing the heated water over the ground coffee are assigned to the filter element (38 or 70), and through said device the heated water can be fed to the filter element (38) of the



automatic coffee maker (10) from below through an opening in the bottom (39) of said element, and the distributing facility of the filter element is designed as a distributing nozzle, characterised in that the bottom (39) of the filter element (38) has a connection tube (45) which can be joined to the rising pipe (20), said tube being connected to the distributing nozzle (47) protruding into the filter chamber (54).

Dwg.1/1|

AB- <US> US 5046409 A

The electric coffee or tea making machine has a housing which resembles a carafe and has an annular outer chamber for hot beverage and a centrally located chamber for a body of water. The centrally located chamber is located above a heating unit, such as a standard electric resistance heater, a halogen lamp or a heater with one or more thick film conductors, and the heated liq. flows upwardly through a riser to be distributed over a supply of comminuted coffee beans or tea leaves in a removable filtering unit which has an outlet for admission of freshly brewed coffee or tea into the outer chamber. A **cover** above the filtering unit is threadedly connected to the upper end of the housing to ensure that the interior of the housing can be maintained well above atmospheric pressure without risking escape of hot water or steam. The device for uniformly distributing heated water in the filtering unit can constitute a nozzle or a foraminous top wall above the supply of flavoring agent. **ADVANTAGE** - Can brew large quantities of **beverages** per unit of time.

(21pp|

DE- <TITLE TERMS> ELECTRIC; COFFEE; TEA; DISPENSE; NOZZLE; DISTRIBUTE; HOT; WATER; GROUND; COFFEE; FILTER; CONNECT; TUBE; WATER; CONTAINER; HEATER|

DC- P28; X27|

IC- <MAIN> A47J-031/04; A47J-031/24|

IC- <ADDITIONAL> A47J-031/06|

MC- <EPI> X27-B|

FS- EPI; EngPI||

11/4/25 (Item 25 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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IM- \*Image available\*

AA- 1989-214996/198930|

XR- <XRPX> N89-163811|

TI- Siphon coffee percolator which prevents over-stirring of coffee - has heater input power control for reducing input power to heater in accordance with temp. sensed|

PA- TOSHIBA KK (TOKE )|

AU- <INVENTORS> HOTTA T; SHIMOMURA N|

NC- 002|

NP- 003|

PN- GB 2212385 A 19890726 GB 8826913 A 19881117 198930 B|

PN- US 4841849 A 19890627 US 88270341 A 19881114 198933

PN- GB 2212385 B 19910731 199131|

AN- <LOCAL> GB 8826913 A 19881117; US 88270341 A 19881114|

AN- <PR> JP 87U176848 U 19871119|

FD- GB 2212385 A

FD- US 4841849 A |

LA- GB 2212385(37); US 4841849(1)|

AB- <BASIC> GB 2212385 A

The coffee percolator comprises upper and lower containers (18), (15) with a water feed tube (19) of the upper **container** (18) **inserted** into the lower **container** (15) and an electric heater (13).

When water in the lower container boils the pressure generated by the steam forces the water into the upper container (18). A temperature sensor (30) detects the temperature of a portion of **container** (18) and a heater **input** power control circuit reduces the input power to the heater (13) in accordance with the temperature sensed.

A heater deenergising circuit deenergises the heater (13) after or immediately before the temperature sensed by the detector (30) reaches the temperature at which the hot water transfer to the upper container is completed. The percolator includes a coffee grinder (24) and a fan (29) to cool the lower container.

ADVANTAGE - Steam bursting into upper vessel and causing undesirable stirring and also overheating of heater is prevented|

AB- <GB> GB 2212385 B

A coffee maker or like **beverage** making **device** comprising: a) a lower container for containing water; b) an upper container for containing coffee powder, said upper container including a water feed tube extending downwardly from the bottom thereof and a filter disposed so as to **cover** an upper end opening of the water feed tube, said upper container being disposed over said lower container so that the water feed tube is **inserted** into said lower **container** and so that an air-tight seal is formed between the upper and lower containers; c) a heater for applying heat to said lower container so that the water contained therein is heated and so that the hot water is transferred to said upper container through said water feed tube and said filter by gas pressure in the lower container; d) temp. sensing means for sensing the temp. of a portion of the device, the temp. of which portion is increased as the temp. of the water contained in said lower **container** is increased; e) heater **input** power control means for reducing an input power to said heater in accordance with the temp. sensed by said temp. sensing means; and f) heater deenergizing means for deenergizing said heater after the temp. sensed by said temp. sensing means exceeds a preset temp. which is at or above the temp. required to complete the transfer of the hot water to said upper container.|

AB- <US> US 4841849 A

The coffee maker comprises a lower container for containing water, and an upper container for containing coffee powder. The upper container includes a water feed tube extending downwardly from the bottom and a filter disposed to **cover** an upper end opening of the water feed tube. The upper container is disposed over the lower container so that the water feed tube is **inserted** into the lower **container** .

A heater applies heat to the lower container so that the water is heated to be boiled and that the hot water is transferred to the upper container through the water feed tube and the filter by aerial pressure in the lower container. A temperature sensor detects the temperature of a portion of the device the temperature of which portion is increased as the temperature of the water contained in the lower **container** is increased. Heater **input** power control reduces an input power to the heater in accordance with the temperature sensed.|

DE- <TITLE TERMS> SIPHON; COFFEE; PERCOLATOR; PREVENT; STIR; COFFEE; HEATER ; INPUT; POWER; CONTROL; REDUCE; INPUT; POWER; HEATER; ACCORD; TEMPERATURE; SENSE|

DC- P28; X27|

IC- <ADDITIONAL> A47J-031/04|

MC- <EPI> X27-B01|

FS- EPI; EngPI||

11/4/26 (Item 26 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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AA- 1989-046776/198906|  
 XR- <XRAM> C89-020545|  
 XR- <XRPX> N89-035879|  
 TI- Coffee packet for use in machine - has pleated filter paper container  
 opening when **cover** is pulled off|  
 PA- SCOTT G W (SCOT-I)|  
 AU- <INVENTORS> SCOTT G W|  
 NC- 001|  
 NP- 001|  
 PN- US 4800089 A 19890124 US 88167650 A 19880314 198906 B|  
 AN- <LOCAL> US 88167650 A 19880314|  
 AN- <PR> US 88167650 A 19880314|  
 FD- US 4800089 A |  
 LA- US 4800089(4)|  
 AB- <BASIC> US 4800089 A

Packet comprises a porous paper cylindrical container with open top, pleated walls and flat bottom, and coated on the inside with edible, air-impervious low-m.p. substance. The container holds a measured amount of ground coffee resting on the coated surface and is closed by an air-impervious circular plastic **cover** sheet hermetically and releasably secured to the pleated walls top.

The **cover** sheet holds under folded tension so that container diameter is reduced and a hoop stress is created in the walls. A pull tab is firmly attached to the sheet. The **container** is placed in a machine receptacle, and the tab is used to remove the **cover** sheet, when the walls expand against the side of the receptacle. The coating is pref. melted by the hot water used in brewing and is held with the coffee solids by the paper acting as a filter.

ADVANTAGE - Facilitates brewing in e.g. a restaurant or **vending machine** .

0/6|

DE- <TITLE TERMS> COFFEE; PACKET; MACHINE; PLEAT; FILTER; PAPER; CONTAINER;  
 OPEN; **COVER** ; PULL|  
 DC- D13; P28; Q31|  
 IC- <ADDITIONAL> A23F-005/46; A47J-031/06; B65B-029/02|  
 MC- <CPI> D03-D01A|  
 FS- CPI; EngPI||

11/4/27 (Item 27 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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AA- 1987-124279/198718|  
 XR- <XRPX> N87-092885|  
 TI- Coffee or teat maker machine with flow through heater - has drink jug  
 and filter container dimensioned for stowing inside fresh water  
 reservoir|  
 PA- MELITTA-WERKE BENTZ & SOHN (BENT )|  
 AU- <INVENTORS> VONDERLUHE D M T; WOON C K|  
 NC- 014|  
 NP- 008|  
 PN- EP 220688 A 19870506 EP 86114756 A 19861023 198718 B|  
 PN- GB 2182236 A 19870513 GB 8625684 A 19861027 198719  
 PN- DE 3538245 C 19870521 DE 3538245 A 19851028 198720  
 PN- GB 2182236 B 19880727 198830  
 PN- EP 220688 B 19880921 198838  
 PN- US 4770090 A 19880913 US 86923331 A 19861027 198839  
 PN- ES 2003832 B 19881201 198933  
 PN- CA 1270376 A 19900619 199028|  
 AN- <LOCAL> EP 86114756 A 19861023; GB 8625684 A 19861027; DE 3538245 A  
 19851028; US 86923331 A 19861027|

AN- <PR> DE 3538245 A 19851028|  
 CT- DE 2023596; DE 2855312; DE 7116716; DE 926087; FR 554252; GB 2120534|  
 FD- EP 220688 A  
 <DS> (Regional): AT BE CH ES FR GB IT LI LU NL SE  
 FD- DE 3538245 C  
 FD- EP 220688 B  
 <DS> (Regional): AT BE CH ES FR GB IT LI LU NL SE  
 FD- US 4770090 A |  
 LA- EP 220688(G<PG> 8); DE 3538245(6); EP 220688(G); US 4770090(8)|  
 DS- <REGIONAL> AT; BE; CH; ES; FR; GB; IT; LI; LU; NL; SE|  
 AB- <BASIC> EP 220688 A

The tea or coffee machine has a stand (10) including a flow-through heater, a fresh water container (11) on the stand with an opening to the heater and a flanged filter container (15) for coffee or tea resting on a tea or coffee reception vessel. The inner diameter of the reception vessel (16) is larger than that of the filter above the flange. The fresh water container (11) has a base surface that is at least as big as the size of the base of the reception vessel.

The height of the fresh water container corresponds to that of the filter container in its reversed condition added to that of the reception vessel to allow storage and compact packing. The filter container has a **cover** (17) with diameter smaller than that of the reception vessel|

AB- <EP> EP 220688 B

The tea or coffee machine has a stand (10) including a flow-through heater, a fresh water container (11) on the stand with an opening to the heater and a flanged filter container (15) for coffee or tea resting on a tea or coffee reception vessel. The inner diameter of the reception vessel (16) is larger than that of the filter above the flange. The fresh water container (11) has a base surface that is at least as big as the size of the base of the reception vessel.

The height of the fresh water container corresponds to that of the filter container in its reversed condition added to that of the reception vessel to allow storage and compact packing. The filter container has a **cover** (17) with diameter smaller than that of the reception vessel (16). (8pp Dwg.No.2/5)|

AB- <GB> GB 2182236 B

A coffee or tea making machine comprising a base which accommodates a continuous-flow heater, a water container which is mounted on the base and which has a discharge opening which opens into the continuous-flow heater, a **receiving container** for **receiving** coffee or tea filtrate and a filter vessel having a support flange whereby in an orientation of use the filter vessel is supported by the support flange resting on an upper edge of the **receiving container**, wherein the shapes and dimensions of the water **container**, the **receiving container** and the filter vessel are such that, for storage, if one or other of the filter vessel and the **receiving container** is inverted from its orientation of use the filter vessel can be **received** in the **receiving container** with only the support flange projecting therefrom and the **receiving container** with the filter vessel therein can then be **received** in the water **container** .  
|

AB- <US> US 4770090 A

The **beverage machine** is constructed so that its space-occupancy during non-use is considerably smaller than its space occupancy during use. The maximum inner width is larger than the outer maximum width. The fresh-water

container of the machine has a base surface which corresponds to that of the receptacle, and the inner height of the fresh-water container corresponds to the combined height of the receptacle and of the filter container when the filter **container** is **inserted** into the receptacle in a position reverse from a normal operating position.

The filter container and the receptacle can be stored during non-use in the fresh-water container, so that the space occupancy of the coffee- and tea-making machine during non-use is considerably smaller.

ADVANTAGE - Compact|

DE- <TITLE TERMS> COFFEE; TEAT; MAKER; MACHINE; FLOW; THROUGH; HEATER;  
DRINK; JUG; FILTER; CONTAINER; DIMENSION; STOW; FRESH; WATER; RESERVOIR

|

DC- P28; X27|

IC- <ADDITIONAL> A47J-031/05|

MC- <EPI> X27-B01|

FS- EPI; EngPI||

11/4/28 (Item 28 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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AA- 1984-258256/198442|

XR- <XRPX> N84-192978|

TI- **Vending machine** storage rack assembly for beverage cans - provides two interconnected moulded racks in face-to-face disposition to define three vertical compartments for cans|

PA- COIN ACCEPTORS INC (COIN-N)|

AU- <INVENTORS> DELPERCIO M J; HOLLAND C R|

NC- 016|

NP- 007|

PN- EP 122111 A 19841017 EP 84302295 A 19840404 198442 B|

PN- AU 8425456 A 19841011 198448

PN- AU 8426487 A 19841011 198448

PN- NO 8401204 A 19841029 198450

PN- DK 8401766 A 19841008 198502

PN- US 4586633 A 19860506 US 83482729 A 19830407 198621

PN- CA 1223846 A 19870707 198731|

AN- <LOCAL> EP 84302295 A 19840404; US 83482729 A 19830407|

AN- <PR> US 83482729 A 19830407|

CT- A3...8617; FR 2399076; GB 789281; GB 988136; No-SR.Pub; US 2956660; US 3306688; US 3348733; US 4287992|

FD- EP 122111 A

<DS> (Regional): AT BE CH DE FR GB IT LI LU NL SE|

LA- EP 122111(E<PG> 27)|

DS- <REGIONAL> AT; BE; CH; DE; FR; GB; IT; LI; LU; NL; SE|

AB- <BASIC> EP 122111 A

A rack portion provides side frame members and intermediate frame members. The side members have arms through cross-members. Upper cross and lower base frame members provide projecting cantiler arms which connect with a **front plate**. The first rack includes upper, lower and intermediate horizontal ramps.

The cams are retained in the vertical compartments by flanges on the rack side members. The rack assembly provides a serpentine arrangement to feed the cans under gravity in serial sequence to a bin of a respective door. A control device allows transfer of a can from the lower ramp assembly to the bin.

USE - For a relatively lightweight small wall-mounted machine or a counter-top machine|

AB- <US> US 4586633 A

The appts. includes a pair of complementary, individually moulded rack portions interconnected in face-to-face relation to define a number of generally vertical **container - receiving** compartments. Each rack portion includes a number of vertically spaced ramps extending beyond the connection face of the racks and disposed in staggered, overlapping relation to the ramps of the other rack portion to provide

a serpentine path for the containers.

A container entry opening is provided at the upper end of the rack assembly and a container dispensing opening is provided at the lower end of the rack assembly.

Each lower end opening is provided with a door having a **container - receiving** bin and a control means associated with the door to control movement of a container from the lower ramp into the bin.

A cradle is provided in each compartment associated with the lower ramp assembly, the cradle rear end selectively engaging a follower container when the cradle front end is loaded with a leading container.

USE - For lightweight, small machine that is wall mounted or can stand on counter top.

(13pp|

DE- <TITLE TERMS> VENDING; MACHINE; STORAGE; RACK; ASSEMBLE; BEVERAGE; CAN;  
TWO; INTERCONNECT; MOULD; RACK; FACE-TO-FACE; DISPOSITION; DEFINE;  
THREE; VERTICAL; COMPARTMENT; CAN|  
DC- P15; P27; P85; Q35; T05|  
IC- <ADDITIONAL> A24F-015/00; A47F-000/00; B65G-059/00; G07F-011/08;  
G09F-009/00|  
MC- <EPI> T05-H04|  
FS- EPI; EngPI||

11/4/29 (Item 29 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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AA- 1981-E8477D/198121|

TI- Beverage **container receiving** and storing appts. - has mechanical holder associated with **cover**, and gravity operated conveyor for moving carton from receiving compartment to store|

PA- NIX D E (NIXD-I)|

AU- <INVENTORS> NIX D E|

NC- 001|

NP- 001|

PN- US 4265352 A 19810505

198121 B|

AN- <PR> US 7929313 A 19790412|

AB- <BASIC> US 4265352 A

The appts. includes a compartment for receiving the carton, the compartment including a **cover** selectively movable between an open position and a closed position, so that when the **cover** is in the open position the carton may be placed in the compartment. An area for storing numbers of cartons is provided. A mechanical holding device, operatively associated with the **cover**, retains each carton in the receiving compartment when the **cover** is in its open position, and releases the carton so that it may be moved to the storing area when the **covers** is in its closed position.

A device for moving the carton from the receiving compartment to the storing area includes a gravity operated conveyor and an activator panel for initially urging the carton toward the storing area when the carton is released by the holding **device**. A receipt **vending** appts. is operatively associated with the holding **device** for **vending** a receipt when the carton is moved to the storing area.|

DE- <TITLE TERMS> BEVERAGE; CONTAINER; RECEIVE; STORAGE; APPARATUS;  
MECHANICAL; HOLD; ASSOCIATE; **COVER**; GRAVITY; OPERATE; CONVEYOR; MOVE;  
CARTON; RECEIVE; COMPARTMENT; STORAGE|

DC- T05|

IC- <ADDITIONAL> G07F-007/06|

MC- <EPI> T05-H02|

FS- EPI||

11/4/30 (Item 30 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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AA- 1980-D0407C/198014|

TI- **Beverage** dispensing **machine** for different flavours - has row of tanks with dispensing valves between bottles and measuring taps (NL 18.3.80|

PA- GIRLINGER H (GIRL-I)|

AU- &lt;INVENTORS&gt; GIRLINGER H|

NC- 007|

NP- 007|

PN- DE 2935074 A 19800327 198014 B|

PN- NL 7906822 A 19800318 198014

PN- GB 2031379 A 19800423 198017

PN- FR 2436101 A 19800516 198026

PN- AT 7806631 A 19820515 198223

PN- CH 639351 A 19831115 198350

PN- IT 1123174 B 19860430 198732|

AN- &lt;PR&gt; AT 786631 A 19780914|

AB- &lt;BASIC&gt; DE 2935074 A

The **beverage** dispensing **machine** has a line of supply tanks (11) each with an adaptor (32) into which the neck of a **bottle** (36) is **inserted** while upside down. Dispensing members underneath the tanks each have an arm (23) which is pushed upwards by a cap or tumbler to dispense a liquid. Each adaptor has a shoulder (46) on which rests a conical sleeve (38) which fits inside the open mouth of the bottle, and an outer sleeve (37) enclosing the bottle neck.

A tube projecting upwards from the interior of the dispenser (20) acts as an air supply connection, terminating above the level of the liquid (29) inside the tank. The tank has a removable **cover** (30) which supports the flanged top of the adaptor. Between the flanged sleeve around the bottle neck and the shoulder of the adaptor, is a control valve (40, 42, 45).|

DE- <TITLE TERMS> BEVERAGE; DISPENSE; MACHINE; FLAVOUR; ROW; TANK; DISPENSE ; VALVE; BOTTLE; MEASURE; TAP|

DC- Q39; S02|

IC- &lt;ADDITIONAL&gt; B67D-003/02; G01F-011/00|

FS- EPI; EngPI||

11/4/31 (Item 31 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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AA- 1979-B1680B/197906|

TI- Cardboard **beverage** container pouring **device** - has projections to punch liq. outlet and air inlet holes on **cover** attached to support post extending from base|

PA- COGEBI CIE GEN BELG (COGE-N)|

AU- &lt;INVENTORS&gt; MORMONT D|

NC- 008|

NP- 003|

PN- EP 600 A 19790207 197906 B|

PN- EP 600 B 19800903 198037

PN- DE 2860133 G 19801210 198131|

AN- <PR> FR 7723868 A 19770803; BE 179412 A 19770718; BE 856889 A 19770718; BE 865889 A 19770718|

CT- US 2125002|

FD- EP 600 A

&lt;DS&gt; (Regional): BE CH DE FR GB LU NL SE

FD- EP 600 B  
 <DS> (Regional): BE CH DE FR GB LU NL SE|  
 DS- <REGIONAL> BE; CH; DE; FR; GB; LU; NL; SE|  
 AB- <BASIC> EP 600 A

The pouring device includes a **cover** with a projection which pierces the top of a liquid container. It has a base to **receive** the **container** and a post attached to the base to support the **cover**. The base and **cover** include recesses to receive the bottom and top of the container respectively.

The post is pref. spaced from the base recess by about an inch, and is pref. more than an inch thick. The **cover** may include a slidable shield which can block a pouring channel. The **cover** may be adjustable on the post.

The pouring device is esp. for waxed cartons, contg. beverages. Its open construction permits easy identification of the contents of a container|

DE- <TITLE TERMS> CARDBOARD; BEVERAGE; CONTAINER; POUR; DEVICE; PROJECT; PUNCH; LIQUID; OUTLET; AIR; INLET; HOLE; **COVER** ; ATTACH; SUPPORT; POST ; EXTEND; BASE|  
 DC- Q32; Q39|  
 IC- <ADDITIONAL> B65D-025/28; B67B-007/28|  
 FS- EngPI||

11/4/32 (Item 1 from file: 347)

FN- DIALOG(R)File 347:JAPIO|  
 CZ- (c) 2003 JPO & JAPIO. All rts. reserv.|  
 TI- **BEVERAGE BOTTLE QUICK COOLING DEVICE**  
 PN- 10-306968 -JP 10306968 A-  
 PD- November 17, 1998 (19981117)  
 AU- NIINUMA MISAO  
 PA- SHINTO KK [000000] (A Japanese Company or Corporation), JP (Japan)  
 AN- 09-117234 -JP 97117234-  
 AN- 09-117234 -JP 97117234-  
 AD- May 07, 1997 (19970507)  
 IC- -6- F25D-011/00  
 CL- 24.2 (CHEMICAL ENGINEERING -- Heating & Cooling)  
 AB- PROBLEM TO BE SOLVED: To provide a low-priced quick cooling device which can cool a beverage bottle for wine, beer, etc., in a short time, and is easy of **insertion** of the **bottle** .

SOLUTION: A cooler 1 is constituted, being equipped with a hollow vessel 3 and a cooling cabin 5. Nonfreezing fluid 11 is reserved in the hollow vessel 3, and a cooling coil 15 is arranged at the lower part inside the hollow vessel 3, and a compressor 17 and a condenser 19 are arranged in the cooling cabin 5. One end of the cooling coil 15 is connected to the compressor 17, and the other end is connected to the condenser 19 through an expansion valve 16. A permanent magnet 21 driven with a motor 20 is arranged rotatably under the bottom of the hollow vessel 3, and nonfreezing fluid 11 is agitated by with the magnetic force by the rotation of the permanent magnet. A netlike supporting plate 13 to support a bottle B is attached in the middle part of the hollow vessel 3, and the **bottle B inserted** from the **bottle** hole 7a of the **cover** 7 arranged at the top of the hollow vessel 3 is supported by the supporting plate 13. Accordingly, the nonfreezing liquid cooled with a cooling coil 15 cools the contents of the bottle B.

11/4/33 (Item 2 from file: 347)

FN- DIALOG(R)File 347:JAPIO|  
 CZ- (c) 2003 JPO & JAPIO. All rts. reserv.|



TI- KEROSENE **VENDING MACHINE** AND EXCLUSIVE CONTAINER  
PN- 10-017097 -JP 10017097 A-  
PD- January 20, 1998 (19980120)  
AU- TSUKADA ICHIRO  
PA- TSUKADA ICHIRO [000000] (An Individual), JP (Japan)  
AN- 08-182663 -JP 96182663-  
AN- 08-182663 -JP 96182663-  
AD- June 25, 1996 (19960625)  
IC- -6- B67D-005/371; B67D-005/32; B67D-005/44; G07F-015/04  
CL- 24.1 (CHEMICAL ENGINEERING -- Fluid Transportation); 29.4 (PRECISION INSTRUMENTS -- Business Machines)  
KW- R007 (ULTRASONIC WAVES); R011 (LIQUID CRYSTALS); R088 (PRECISION MACHINES -- Automatic **Vending Machines** )  
AB- PROBLEM TO BE SOLVED: To sell every certain volume of kerosene by use of an exclusive kerosene **receive container** , by providing a constant volume supply pump which automatically stops at every time when pumping up kerosene as much as one container capacity from a tank installed at the outside of the **vending machine** and a containerfixing arm discriminating whether the container put in the containing space is the exclusive container or not on the basis of the outline dimensions of the container.  
SOLUTION: Pressence of a container is checked by a container sensor 24. When a container is detected, the container is fixed by a fixing arm 19. Then the outline dimensions of the container are checked as to whether they are correct or not. When it is discriminated that the container is correctly fixed, the **cover** of the container is opened by an opening arm 20. When it is discriminated that the **cover** is correctly opened, an oil storage tank 15 is lowered by a lifter and an oil supply nozzle 17 and a sensor nozzle 18 are inserted into the opening of the container from which the **cover** has been removed. And further, the kind of oil left therein is checked by a residual oil sensor 23. When it is discriminated that the oil is kerosene, the automatic valve for the oil supply nozzle 17 is opened. In this way, customers can safely and easily manipulate the **vending machine** .

11/4/34 (Item 3 from file: 347)

FN- DIALOG(R)File 347:JAPIO|  
CZ- (c) 2003 JPO & JAPIO. All rts. reserv.|  
TI- TOOL CAPABLE OF EASILY **PUTTING CAN ( BOTTLE ) JUICE (BEER) IN**  
**AUTOMATIC MULTIPLE KIND VENDING MACHINE**  
PN- 09-102065 -JP 9102065 A-  
PD- April 15, 1997 (19970415)  
AU- MORITA MASAHARU  
PA- MORISHIYOU KK [000000] (A Japanese Company or Corporation), JP (Japan)  
AN- 07-293213 -JP 95293213-  
AN- 07-293213 -JP 95293213-  
AD- October 05, 1995 (19951005)  
IC- -6- G07F-009/00; B65B-039/00  
CL- 29.4 (PRECISION INSTRUMENTS -- Business Machines); 31.1 (PACKAGING -- General); 31.2 (PACKAGING -- Containers)  
KW- R088 (PRECISION MACHINES -- Automatic **Vending Machines** )  
AB- PROBLEM TO BE SOLVED: To shorten time for **putting can ( bottle )** juice (beer) into an automatic multiple kind **vending machine** .

SOLUTION: The **cover** 2 of the box 3 of can (bottle) juice (beer) is opened and a tool is inserted into the box 3 and the box 3 is inclined. Thus, cans flow on a rail and can ( **bottle** ) juice (beer) can be **inserted** into the automatic multiple kind **vending machine**

11/4/35 (Item 4 from file: 347)

FN- DIALOG(R)File 347:JAPIO|  
CZ- (c) 2003 JPO & JAPIO. All rts. reserv.|  
TI- OPENING DEVICE OF CONTAINER  
PN- 08-324690 -JP 8324690 A-  
PD- December 10, 1996 (19961210)  
AU- OMAKI HIROKAZU  
PA- JAPAN TOBACCO INC [000456] (A Japanese Company or Corporation), JP  
(Japan)  
AN- 07-161539 -JP 95161539-  
AN- 07-161539 -JP 95161539-  
AD- June 06, 1995 (19950606)  
IC- -6- B67B-007/15  
CL- 31.2 (PACKAGING -- Containers)  
KW- R088 (PRECISION MACHINES -- Automatic Vending Machines )  
AB- PURPOSE: To provide an opening device of a container by which the cap  
can be easily removed from the container.

CONSTITUTION: In an opening device of a container, a cap 32 screwed  
in so as to **cover** the mouth 31 of the **container** body 3 is  
**inserted** in an opening plate 1 provided with a notch 11. The rugged  
holding parts 13a, 13b of cap are formed at least at a part of the  
inner peripheral part of the notch 11. The container body 3 is  
twisted in such a state that the cap 32 is held by the holding parts  
13a, 13b to remove the cap 32 from the container body 3.

11/4/36 (Item 5 from file: 347)

FN- DIALOG(R)File 347:JAPIO|  
CZ- (c) 2003 JPO & JAPIO. All rts. reserv.|  
TI- DEVICE FOR PNEUMATICALLY OPERATED AMUSEMENT DRINKING ATTACHED TO  
BEVERAGE CONTAINER  
PN- 08-183538 -JP 8183538 A-  
PD- July 16, 1996 (19960716)  
AU- DON ESU KAATAAMAN  
PA- KONDO HIROSHI [000000] (An Individual), JP (Japan)  
AN- 06-338647 -JP 94338647-  
AN- 06-338647 -JP 94338647-  
AD- December 27, 1994 (19941227)  
IC- -6- B65D-025/20; B65D-051/24  
CL- 31.2 (PACKAGING -- Containers); 11.4 (AGRICULTURE -- Food Products)  
AB- PURPOSE: To provide a **device** for **beverage** which plays a role of an  
amusement while a beverage is being drunk.

CONSTITUTION: A **cover** 12 which is placed on an opening on the top  
of a glass, cup 11, bottle, can or carton type container is provided,  
and a straw 23 is **inserted** in the **container** in order to suck up a  
liquid 24 from the container for the usage. On the **cover** , an  
opening 25 which is suitable to draw in the atmospheric air into a  
display device by sucking in the liquid through the straw by a user  
is provided. Also, on the **cover** , an impeller 17 is provided so that  
the stream of air being generated by the sucking up of the beverage  
may hit the impeller, and the display device 17 is rotated by a jet  
stream being generated by the sucking up, and a function of amusement  
is displayed.

11/4/37 (Item 6 from file: 347)

FN- DIALOG(R)File 347:JAPIO|  
CZ- (c) 2003 JPO & JAPIO. All rts. reserv.|  
TI- CONTAINER-STORING **DEVICE** FOR **BEVERAGE** , FOODSTUFF OR THE LIKE, AND  
MOUNTING DEVICE FOR HANGING-MEMBER

PN- 04-187111 -JP 4187111 A-  
 PD- July 03, 1992 (19920703)  
 AU- TAMURA YOSHIO  
 PA- TAMURA YOSHIO [000000] (An Individual), JP (Japan)  
 AN- 02-316156 -JP 90316156-  
 AN- 02-316156 -JP 90316156-  
 AD- November 22, 1990 (19901122)  
 IC- -5- A47F-003/08; A47F-003/04; F25D-025/00  
 CL- 30.9 (MISCELLANEOUS GOODS -- Other); 24.2 (CHEMICAL ENGINEERING -- Heating & Cooling)  
 SO- Section: C, Section No. 996, Vol. 16, No. 501, Pg. 129, October 16, 1992 (19921016)  
 AB- PURPOSE: To easily take a container out by moving the next container forward when the container on the side of a person is taken out, by a method wherein a T-shaped opening for passing a hanging member is formed on the front wall of a box member, communicating with a groove for movement, and a stopping plate formed in the shape of an arc, which is stopping part engaged with a stop groove on the hanging member, is provided on the front wall side of a **cover** member.  
 CONSTITUTION: Since a stopping part 34 on a stopping plate 33 is in the shape of an arc, a hanging member 19 is smoothly passed by lifting the stopping plate 33 up when brought into contact with the stopping plate 33, even if a stop groove 22 on the reverse side of a front wall 15 is brought into contact with the stopping plate 33. When the stopping part 34 is engaged with the stop groove 22 on the side of the front wall 15, a container 17 is stopped. The hanging members 19 for each **container** 17 are **inserted** one hanging member after another, and the hanging member 19 inserted earlier passes the part of a ratchet 40 on a stopper 38 in order, following which, when the stop groove 22 on the hanging member 19 for the **container** 17 **inserted** first is engaged with a stopping part 56 on a swing stopper 51, all of the containers 17 are stored.

11/4/38 (Item 7 from file: 347)

FN- DIALOG(R)File 347:JAPIO|  
 CZ- (c) 2003 JPO & JAPIO. All rts. reserv.|  
 TI- FILM INTEGRATED TYPE CAMERA HOUSED IN CONTAINER  
 PN- 03-204641 -JP 3204641 A-  
 PD- September 06, 1991 (19910906)  
 AU- SUDO TSUYOSHI  
 PA- KONICA CORP [000127] (A Japanese Company or Corporation), JP (Japan)  
 AN- 02-001323 -JP 901323-  
 AN- 02-001323 -JP 901323-  
 AD- January 08, 1990 (19900108)  
 IC- -5- G03C-003/00; B65D-085/38; G03B-017/04  
 CL- 29.1 (PRECISION INSTRUMENTS -- Photography & Cinematography); 31.1 (PACKAGING -- General); 31.2 (PACKAGING -- Containers)  
 KW- R088 (PRECISION MACHINES -- Automatic **Vending Machines** )  
 SO- Section: P, Section No. 1283, Vol. 15, No. 477, Pg. 79, December 04, 1991 (19911204)  
 AB- PURPOSE: To facilitate the obtaining means of a user while the high quality of a camera is maintained by housing the film integrated type camera in a packing container having an outside diameter size which is in conformity with loading goods for an automatic **vending machine** .

CONSTITUTION: The camera main body is housed in a cylinder-like packing container 21 and covered 23. Bosses 21a and 23a are provided to the central parts of the respective inside bottom parts of the container 21 and a **cover** 23 and a cylinder-like buffer material 25 is inserted in the outside circumferential part thereof. Then,

receiving parts 10a and 10b are provided to the body 10 of the camera main body so as to insert the outside diameter part of the buffer material 25 in the receiving parts 10a and 10b. Besides, the camera main body is **inserted** in the **container** 21 and the engaged part thereof is disengaged and stopped under a state that the **cover** 23 is closed. Therefore, even when the camera main body is loaded in the automatic **vending machine** 40 and made to drop on a receiving port 50 through an ejecting sheet 49, it is protected because impact is absorbed through the buffer member 25. Thus, the obtaining means of the user is facilitated while the high quality and performance of the camera are maintained.

11/4/39 (Item 8 from file: 347)

FN- DIALOG(R)File 347:JAPIO|

CZ- (c) 2003 JPO & JAPIO. All rts. reserv. |

TI- CAP-FORM **COVER** FOR DRINK CONTAINER AND SMALL VESSEL FOR ADDITIVE AND DRINK CONTAINER UTILIZING THEM

PN- 01-139362 -JP 1139362 A-

PD- May 31, 1989 (19890531)

AU- FUJII HIDEYO

PA- FUJII HIDEYO [000000] (An Individual), JP (Japan)

AN- 63-152131 -JP 88152131-

AN- 63-152131 -JP 88152131-

AD- June 22, 1988 (19880622)

IC- -4- B65D-077/08

CL- 31.2 (PACKAGING -- Containers); 11.4 (AGRICULTURE -- Food Products)

KW- R088 (PRECISION MACHINES -- Automatic **Vending Machines** )

SO- Section: M, Section No. 865, Vol. 13, No. 392, Pg. 122, August 30, 1989 (19890830)

AB- PURPOSE: To make it possible to freely pour additives into a drink within a container according to a taste, by sealing the bottom and top of the container with an impermeable film to water and air which can be perforated and by fitting a small container for the additives filled with milk or syrup, etc., into an **insertion** -recess for the small **container** on a cap-form **cover** .

CONSTITUTION: This container for drinks comprises a small vessel 1 to enclose such additives as milk and syrup, etc., and a cap-form **cover** 6 which is fitted with the small vessel and applied to the container 10 for drinks. The small vessel 1 for additives is sealed with an impermeable film 2 to water and air, which can be performed, at the upper and bottom openings. The cap-form **cover** 6 applied to the container 10 with a drink 24 like coffee prevents dust and flies from intrusion and also the contents from spilling over. Persons, who want milk and/or syrup, fit the small vessel 1 into a insertion-recess 8 of the cap-form **cover** 6 and insert a straw 12 into the container through a laminated film 2 of the small vessel 1. In this way, milk and/or syrup of the small vessel can be poured into the container 10 for drinks.

?

?t16/4/all

16/4/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

IM- \*Image available\*

AA- 2000-677906/200066|

XR- &lt;XRPX&gt; N01-190545|

TI- Device by **reverse vending machine** for bottles and cans has  
corresponding opening positioned within in internal bottle/can-handling  
device of **reverse vending machine** |

PA- REPANT AS (REPA-N)|

AU- &lt;INVENTORS&gt; ANDERSEN N E; GUNTVEIT L|

NC- 093|

NP- 005|

PN- NO 9901853 A 20001020 NO 991853 A 19990419 200066 B|

PN- WO 200067211 A1 20001109 WO 2000NO116 A 20000411 200128

PN- NO 309298 B1 20010108 NO 991853 A 19990419 200106

PN- AU 200038460 A 20001117 AU 200038460 A 20000411 200111

PN- EP 1180259 A1 20020220 EP 2000917500 A 20000411 200221

&lt;AN&gt; WO 2000NO116 A 20000411|

AN- &lt;LOCAL&gt; NO 991853 A 19990419; WO 2000NO116 A 20000411; NO 991853 A

19990419; AU 200038460 A 20000411; EP 2000917500 A 20000411; WO

2000NO116 A 20000411|

AN- &lt;PR&gt; NO 991853 A 19990419|

FD- WO 200067211 A1 G07F-007/06

<DS> (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ  
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ  
LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI  
SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

<DS> (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS  
LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

FD- NO 309298 B1 G07F-007/06 Previous Publ. patent NO 9901853

FD- AU 200038460 A G07F-007/06 Based on patent WO 200067211

FD- EP 1180259 A1 G07F-007/06 Based on patent WO 200067211

<DS> (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV  
MC MK NL PT RO SE SI|

LA- WO 200067211(E&lt;PG&gt; 12); EP 1180259(E)|

DS- <NATIONAL> AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK  
DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK  
LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL  
TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW|

DS- <REGIONAL> AL; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;  
LT; LU; LV; MC; MK; NL; PT; RO; SE; SI; EA; GH; GM; KE; LS; MW; OA; SD;  
SL; SZ; TZ; UG; ZW|

AB- &lt;PN&gt; WO 200067211 A1|

AB- <NV> NOVELTY - A feed opening (22) for bottles and cans is made in a  
front cover (14) without a fixed connection to **pipe** -work etc. Below  
the feed opening (22) in the front cover (14) is formed a through  
opening (26) for emptying of remnants from bottles or cans before their  
insertion into the **reverse vending machine** through the feed  
opening (22). A corresponding opening (20) is positioned within in the  
internal bottle/can-handling **device** of the **reverse vending**  
**machine** . |

AB- <BASIC> USE - In **reverse vending machines** for bottles and/or  
cans.

ADVANTAGE - Handling bottles and cans fed through the feed opening,  
counts their number and types and calculates and supplies the customer,  
in return with a note stating the sum due to him/her. Allows emptying  
of bottles and cans without slowing down the bottle depositing process.  
Easy dismantling of the machine construction.

DESCRIPTION OF DRAWING(S) - The drawing shows a corresponding split view, in which the same front cover has been pulled straight out from wall.

front cover (14)  
corresponding opening (20)  
feed opening (22)  
through opening (26)  
pp; 12 DwgNo 2/3|

DE- <TITLE TERMS> DEVICE; REVERSE; VENDING; MACHINE; BOTTLE; CAN;  
CORRESPOND; OPEN; POSITION; INTERNAL; BOTTLE; CAN; HANDLE; DEVICE;  
REVERSE; VENDING; MACHINE|  
DC- T05|  
IC- <MAIN> G07F-007/06|  
MC- <EPI> T05-H02E; T05-H08A|  
FS- EPI||

16/4/2 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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IM- \*Image available\*  
AA- 1992-399096/199248|  
DX- <RELATED> 1995-038425|  
XR- <XRAM> C92-177083|  
XR- <XRPX> N92-304423|  
TI- Automated recycling system with min. service requirements - comprising selectable ports in which inserted items are automatically verified and densified then stored for collection|  
PA- ENVIRONMENTAL PROD CORP (ENVI-N)|  
AU- <INVENTORS> DEWOOLFSON B H; POWELL K R|  
NC- 018|  
NP- 004|  
PN- WO 9220046 A1 19921112 WO 92US1608 A 19920310 199248 B|  
PN- US 5226519 A 19930713 US 91693250 A 19910429 199329  
<AN> US 92915867 A 19920720  
PN- EP 585243 A1 19940309 EP 92907388 A 19920310 199410  
<AN> WO 92US1608 A 19920310  
PN- JP 7165304 A 19950627 JP 92111156 A 19920430 199534|  
AN- <LOCAL> WO 92US1608 A 19920310; US 91693250 A 19910429; US 92915867 A 19920720; EP 92907388 A 19920310; WO 92US1608 A 19920310; JP 92111156 A 19920430|  
AN- <PR> US 91693250 A 19910429; US 92915867 A 19920720|  
CT- DE 1947729; EP 82735; US 4248389; US 4579216; WO 8807244|  
FD- WO 9220046 A1 G07F-007/06  
<DS> (National): CA  
<DS> (Regional): AT BE CH DE DK ES FR GB GR IT LU MC NL SE  
FD- US 5226519 A G07F-007/06 Cont of application US 91693250  
FD- EP 585243 A1 Based on patent WO 9220046  
<DS> (Regional): AT BE CH DE DK ES FR GB GR IT LI LU MC NL SE  
FD- JP 7165304 A B65F-005/00|  
LA- WO 9220046(E<PG> 38); US 5226519(23); EP 585243(E); JP 7165304(14)|  
DS- <NATIONAL> CA|  
DS- <REGIONAL> AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LU; MC; NL; SE; LI|  
AB- <BASIC> WO 9220046 A

A system comprises stations each receiving different items and each with consumer-selectable inlet ports, a pre-selector associated with each port to automatically verify that an inserted item is of the correct type, a microprocessor storing data on verified items, and a densifier for verified items.

Each type of densified item is automatically transferred to a corresp. segregated storage area at a bulk storage unit and a token is

issued in response to receipt of a given item, partic. a voucher, coupon or coin. In partic., the items are Al, glass and plastic containers, the glass being segregated into green, brown and white, and the plastic including high-density polyethylene, polypropylene, PVC and PET.

ADVANTAGE - Provides efficient processing with the min. of service requirements.

CO

Dwg. 4/13|

AB- <US> US 5226519 A

A multiple use commodity collection and storage system comprises a number of collection stations each for receiving a number of different post-consumer recycled commodities. Each station includes (a) a number of **reverse vending machines** with selectable inlet port located in each machine; (b) a pre-selection device associated with each port for automatically verifying inserted commodity is of the right type; (c) a microprocessor storing data corresp. to this and (d) a densifier for the commodity received. A bulk store is remotely located from the stations with at least one bin corresp. to each machine for each type of commodity, and a pneumatic mechanism for conveying the commodities to the bins comprising intake **pipes** and a suction source, and outlet tubes feeding the bins.

USE - Used for recycling metal, ceramic and plastics.

Dwg. 1/14|

DE- <TITLE TERMS> AUTOMATIC; RECYCLE; SYSTEM; MINIMUM; SERVICE; REQUIRE; COMPRISE; SELECT; PORT; INSERT; ITEM; AUTOMATIC; VERIFICATION; DENSIFY; STORAGE; COLLECT|

DC- A35; Q35; T05|

IC- <MAIN> B65F-005/00; G07F-007/06|

MC- <CPI> A11-C03|

MC- <EPI> T05-H02E|

FS- CPI; EPI; EngPI||

?